

Graphing Sinusoids

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Date _____

Graph each function using degrees.

$$1) y = 2\cos\left(\frac{\theta}{4} + 210\right) + 2$$

$$2) y = 4\cos\left(\frac{\theta}{2} + 30\right) + 1$$

$$3) y = \sin(-3\theta - 45)$$

$$4) y = 3\sin(-4\theta - 90) + 2$$

$$5) y = \frac{1}{2} \cdot \cos(\theta + 45) - 2$$

$$6) y = 3\sin(-3\theta - 90) + 2$$

$$7) y = 2 + 2\cos(-4\theta - 90)$$

$$8) y = 3\sin\left(\frac{\theta}{2} - 120\right) - 1$$

$$9) y = -2 + 3\sin(3\theta + 120)$$

$$10) y = 2\sin(-2\theta + 315) + 2$$

$$11) y = \frac{1}{2} \cdot \sin(-4\theta + 120) - 2$$

$$12) y = 2\sin(3\theta - 30) - 1$$

$$13) y = -2 + 3\sin(2\theta + 45)$$

$$14) y = -2 + 3\sin\left(\frac{\theta}{3} - 330\right)$$

$$15) y = 4\cos(-4\theta + 90) - 2$$

$$16) y = 3\sin\left(-\frac{\theta}{2} - 45\right)$$

$$17) y = 2\cos(2\theta + 30) - 2$$

$$18) y = 3\cos(2\theta - 150) + 1$$

$$19) y = \sin(-3\theta + 315)$$

$$20) y = 1 + \frac{1}{2} \cdot \cos(4\theta - 150)$$

$$21) y = 1 + 2\sin(2\theta + 135)$$

$$22) y = 3\sin(4\theta - 45) - 2$$

$$23) y = -1 + \cos\left(\frac{\theta}{4} - 150\right)$$

$$24) y = \sin(\theta - 135)$$

$$25) y = 2\cos(3\theta + 135) + 1$$

$$26) y = 2\cos(2\theta - 315)$$

$$27) y = 4\sin\left(\frac{\theta}{4} - 120\right) - 2$$

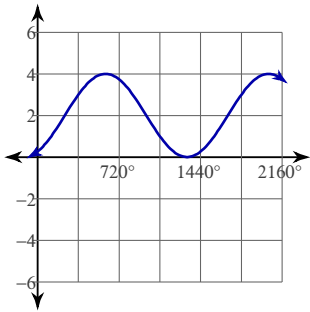
$$28) y = \frac{1}{2} \cdot \sin(2\theta + 135) + 2$$

$$29) y = 3\cos(3\theta + 90) + 1$$

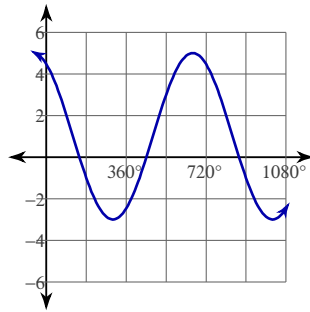
$$30) y = 3\sin(2\theta + 30) + 2$$

Answers to Graphing Sinusoids (ID: 1)

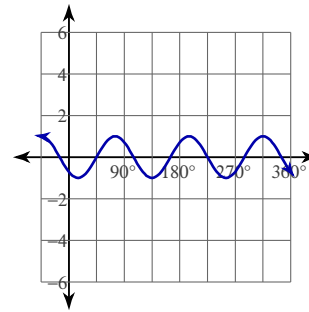
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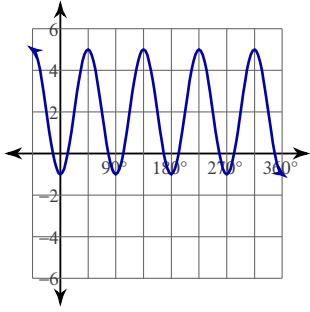
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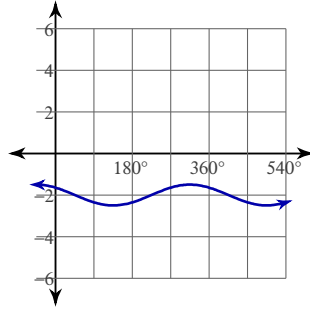
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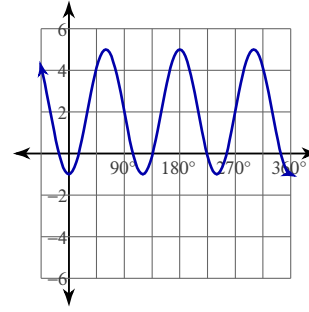
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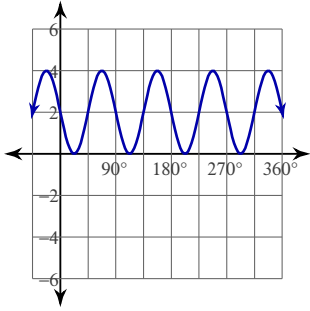
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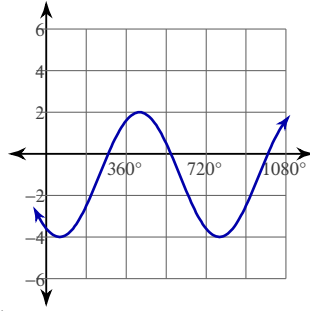
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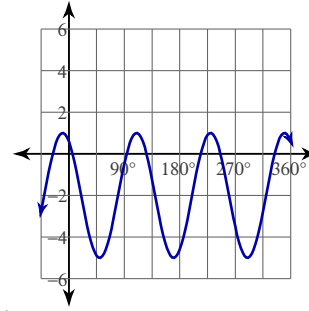
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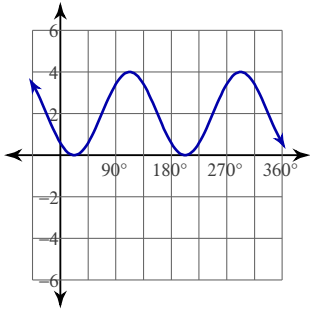
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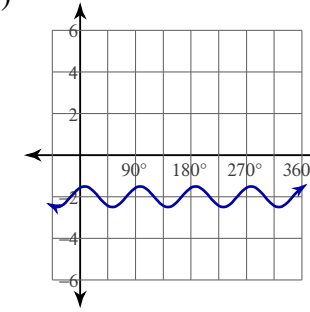
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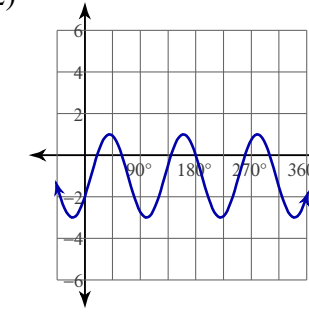
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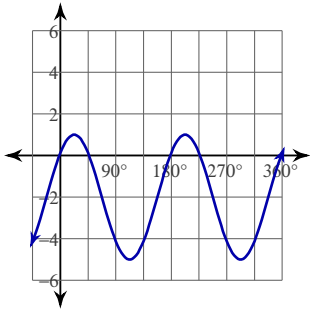
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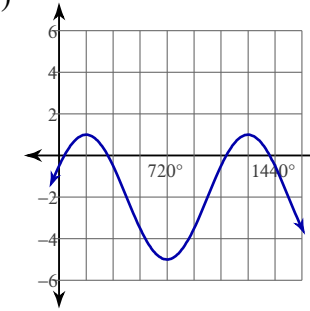
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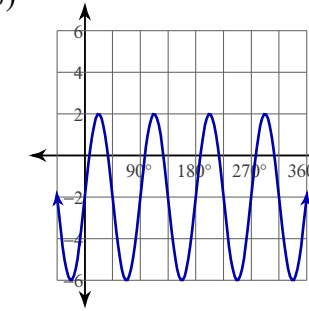
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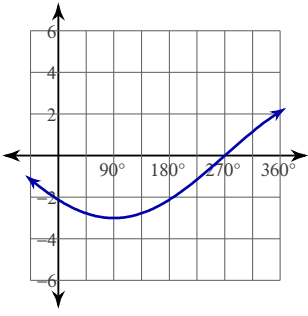
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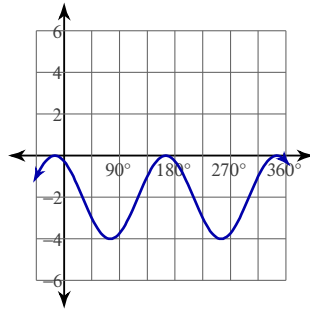
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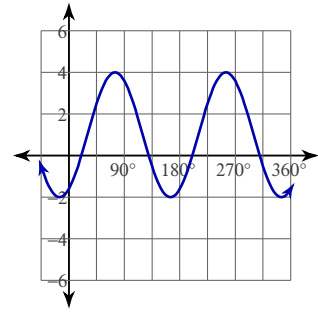
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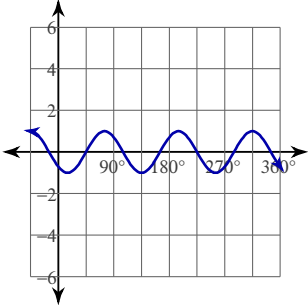
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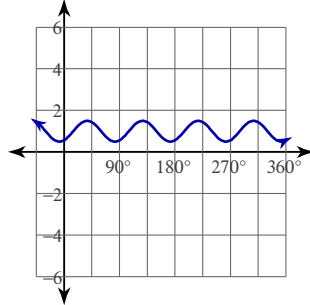
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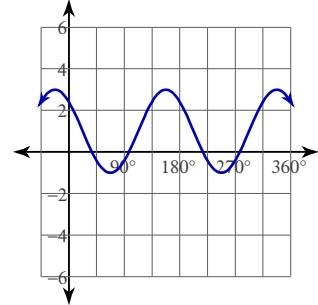
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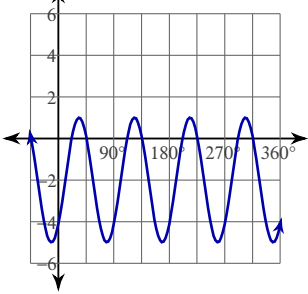
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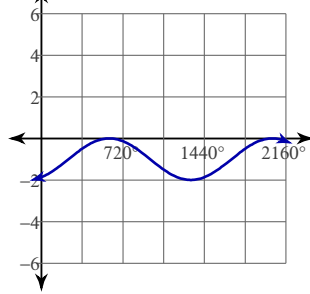
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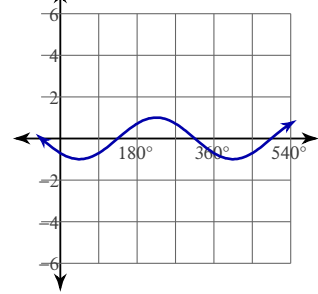
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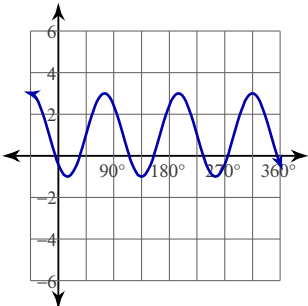
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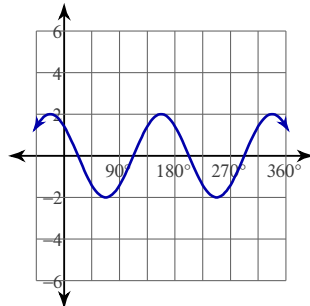
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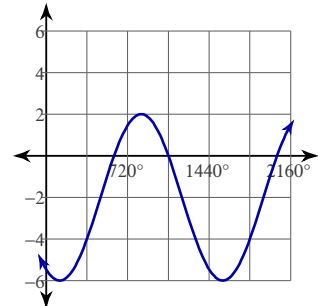
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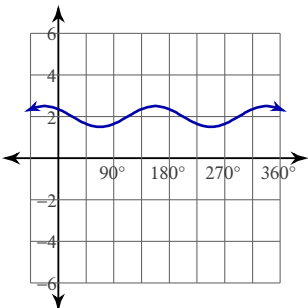
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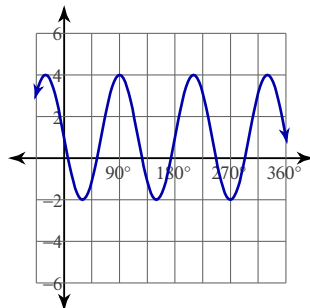
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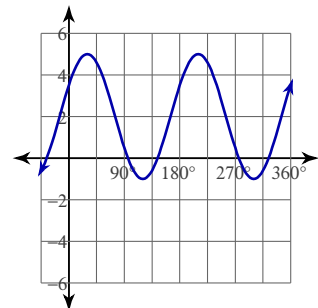
28)



29)



30)



Graphing Sinusoids

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Date _____

Graph each function using degrees.

$$1) y = 4\cos(2\theta + 225) - 2$$

$$3) y = 4\cos(4\theta - 150) + 2$$

$$5) y = 2\sin\left(\frac{\theta}{3} - 135\right) + 1$$

$$7) y = 4\sin(4\theta + 150) + 1$$

$$9) y = \frac{1}{2} \cdot \sin(4\theta - 60) - 2$$

$$11) y = -2 + 3\cos\left(\frac{\theta}{4} + 135\right)$$

$$13) y = 2\sin(-2\theta - 150) + 1$$

$$15) y = \cos(-4\theta + 60) - 2$$

$$17) y = \frac{1}{2} \cdot \cos(2\theta + 60) - 1$$

$$19) y = 3\sin(3\theta - 30) + 2$$

$$21) y = 2\sin(-3\theta - 135)$$

$$23) y = 3\sin(2\theta - 90) - 1$$

$$25) y = 4\cos(2\theta - 150) + 2$$

$$27) y = 3\cos\left(\frac{\theta}{2} - 60\right)$$

$$29) y = -1 + 2\sin(\theta - 45)$$

$$2) y = 2\sin -3\theta + 1$$

$$4) y = 3\sin(3\theta + 315) + 1$$

$$6) y = -2 + 3\cos(4\theta + 45)$$

$$8) y = 3\sin(\theta - 300) - 2$$

$$10) y = 3\cos \theta + 1$$

$$12) y = -2 + 2\cos\left(\frac{\theta}{4} + 90\right)$$

$$14) y = 3\cos\left(\frac{\theta}{3} + 150\right) - 2$$

$$16) y = 1 + \frac{1}{2} \cdot \sin(\theta - 90)$$

$$18) y = 2\cos(\theta + 60) + 1$$

$$20) y = 1 + 2\cos(3\theta + 60)$$

$$22) y = -2 + \frac{1}{2} \cdot \sin(2\theta - 120)$$

$$24) y = \frac{1}{2} \cdot \cos\left(\frac{\theta}{2} - 90\right) - 2$$

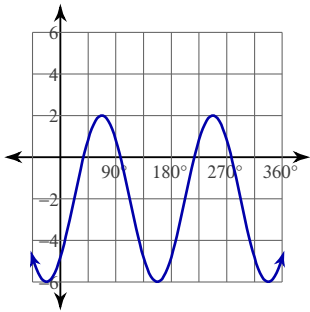
$$26) y = \frac{1}{2} \cdot \cos\left(\frac{\theta}{4} + 120\right) + 1$$

$$28) y = 4\sin(4\theta - 120) - 2$$

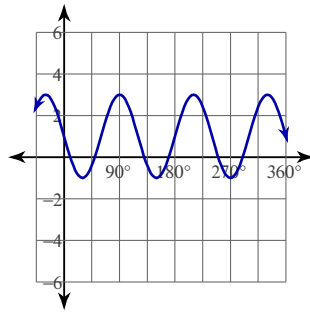
$$30) y = \frac{1}{2} \cdot \sin\left(\frac{\theta}{2} + 210\right) + 1$$

Answers to Graphing Sinusoids (ID: 2)

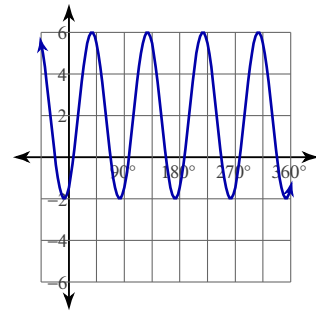
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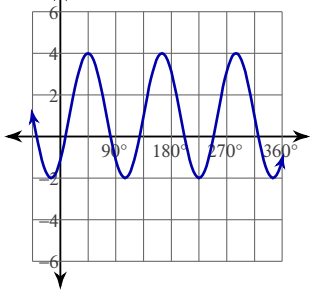
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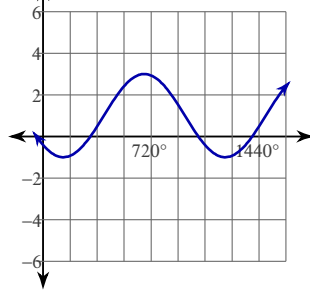
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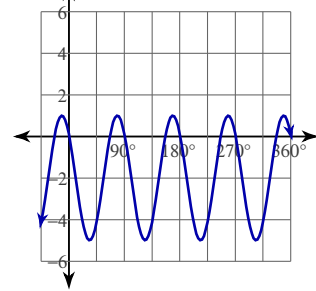
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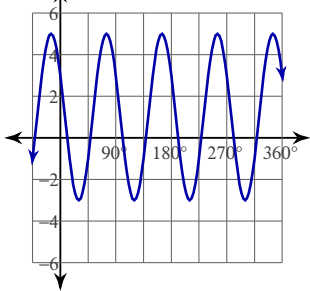
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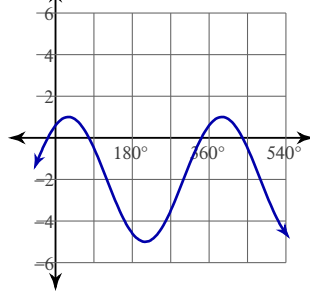
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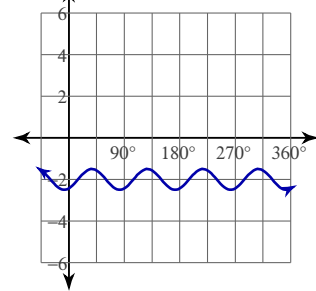
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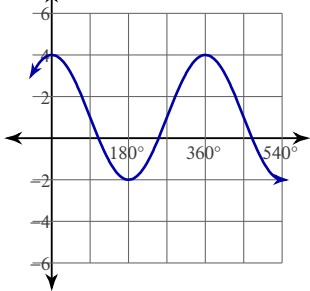
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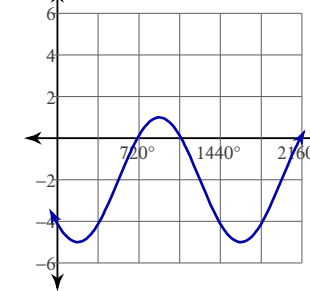
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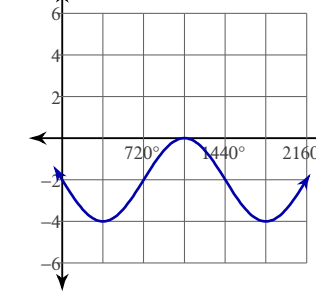
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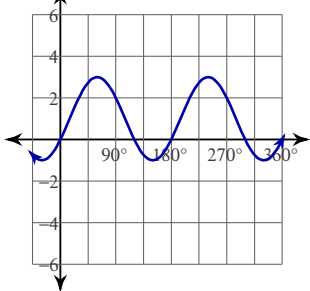
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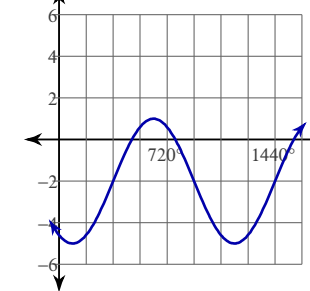
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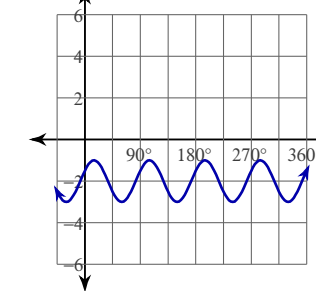
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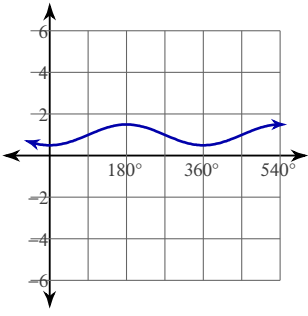
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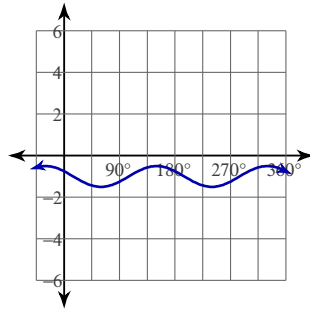
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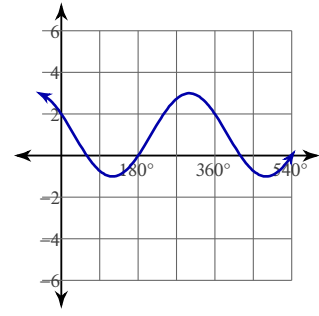
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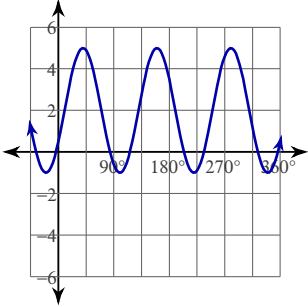
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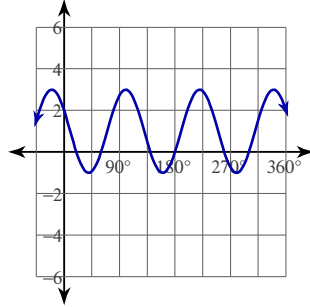
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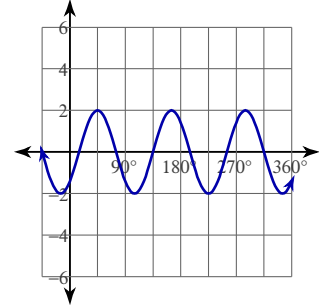
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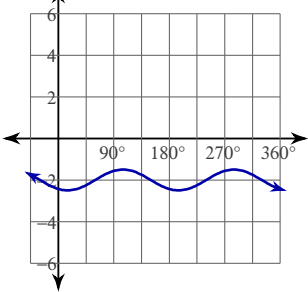
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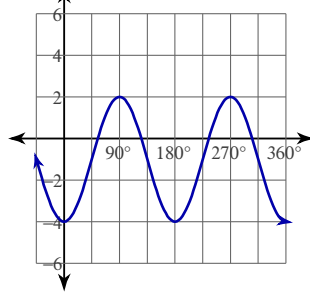
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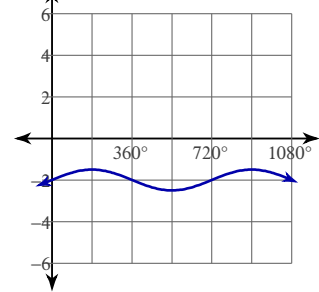
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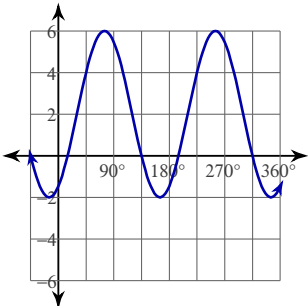
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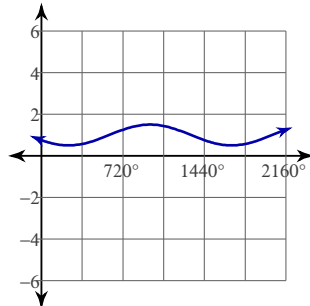
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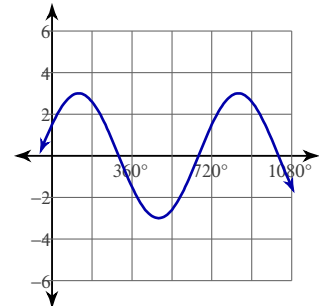
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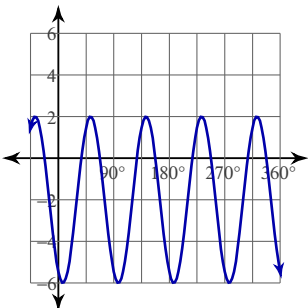
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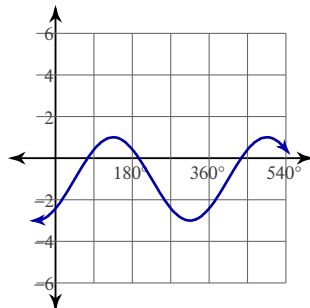
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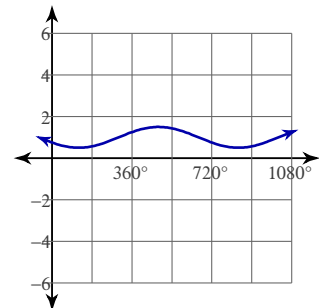
28)



29)



30)



Graphing Sinusoids

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Graph each function using degrees.

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$$1) y = 4\cos(3\theta + 270) - 2$$

$$2) y = \frac{1}{2} \cdot \sin(2\theta - 45) + 1$$

$$3) y = 2\sin\left(\frac{\theta}{4} + 60\right) + 2$$

$$4) y = \frac{1}{2} \cdot \cos\left(-\frac{\theta}{2} + 210\right) - 1$$

$$5) y = 4\cos(3\theta + 30) - 1$$

$$6) y = \frac{1}{2} \cdot \cos\left(\frac{\theta}{2} + 210\right) + 2$$

$$7) y = 2 + \frac{1}{2} \cdot \sin\left(\frac{\theta}{4} - 120\right)$$

$$8) y = \frac{1}{2} \cdot \sin\left(\frac{\theta}{4} - 45\right) + 2$$

$$9) y = \frac{1}{2} \cdot \cos(3\theta - 120) + 1$$

$$10) y = 3\cos(3\theta + 45) + 1$$

$$11) y = 1 + 3\cos(4\theta - 135)$$

$$12) y = \sin(2\theta + 300) - 1$$

$$13) y = 3\sin(2\theta + 120) - 1$$

$$14) y = 2\cos(2\theta - 120) + 1$$

$$15) y = -2 + \frac{1}{2} \cdot \sin(3\theta + 135)$$

$$16) y = 1 + 4\sin(2\theta + 60)$$

$$17) y = 4\cos(3\theta + 90) - 1$$

$$18) y = \frac{1}{2} \cdot \cos(3\theta + 120) - 2$$

$$19) y = 2 + \frac{1}{2} \cdot \sin(4\theta + 270)$$

$$20) y = -1 + \frac{1}{2} \cdot \sin(3\theta - 225)$$

$$21) y = \frac{1}{2} \cdot \cos(-2\theta - 60)$$

$$22) y = 4\sin(3\theta + 60) - 1$$

$$23) y = 2 + 4\cos \theta$$

$$24) y = \frac{1}{2} \cdot \sin(2\theta - 225)$$

$$25) y = 4\sin\left(\frac{\theta}{2} - 150\right) - 2$$

$$26) y = \frac{1}{2} \cdot \cos(-4\theta + 150) + 1$$

$$27) y = 1 + 4\cos\left(\frac{\theta}{2} - 60\right)$$

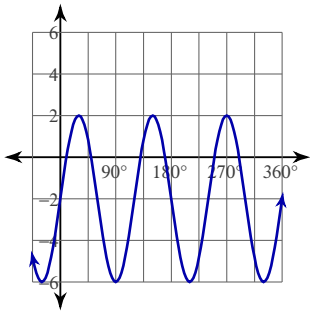
$$28) y = 4\sin(-4\theta + 240) + 2$$

$$29) y = \cos \theta + 1$$

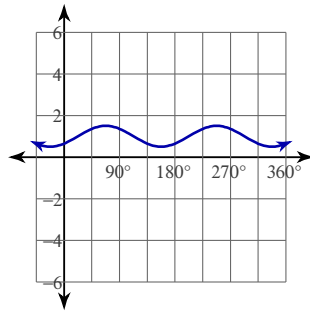
$$30) y = 2\cos(4\theta + 90) - 1$$

Answers to Graphing Sinusoids (ID: 3)

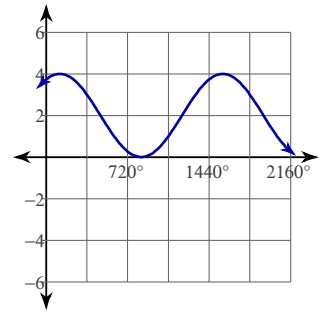
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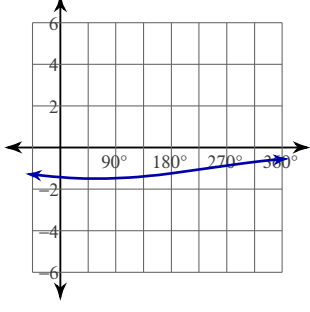
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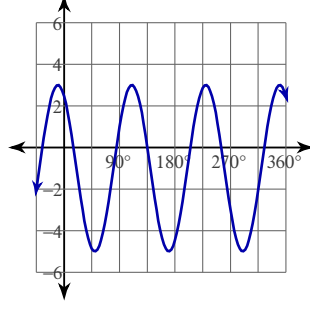
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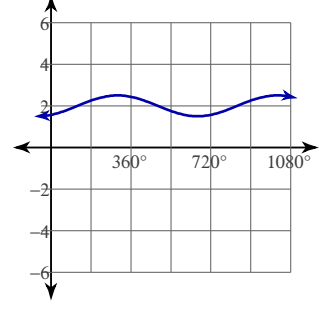
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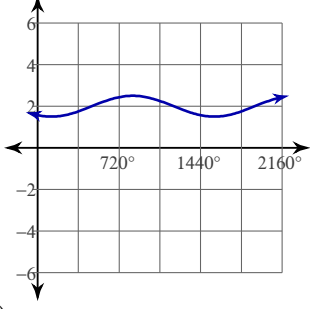
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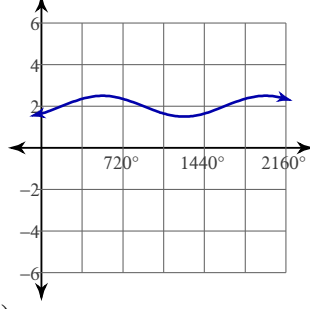
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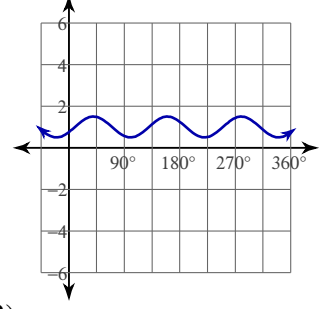
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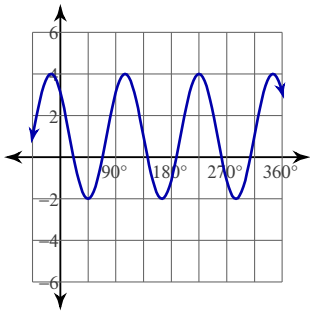
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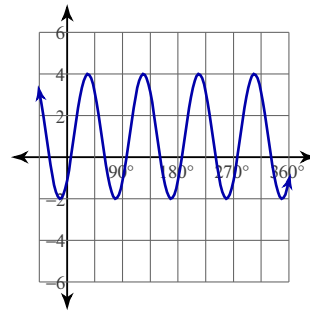
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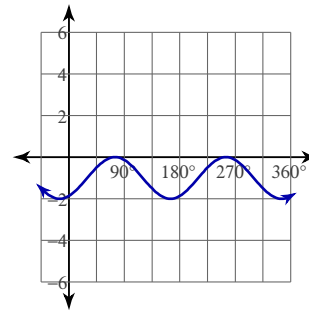
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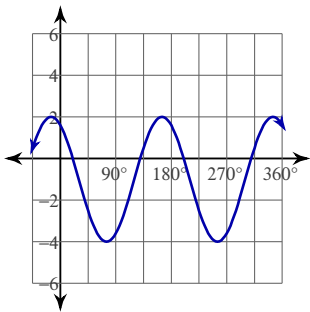
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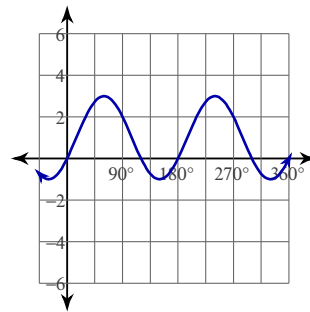
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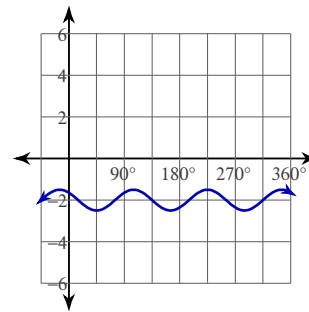
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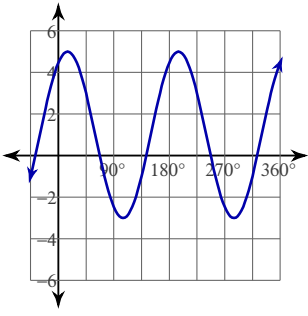
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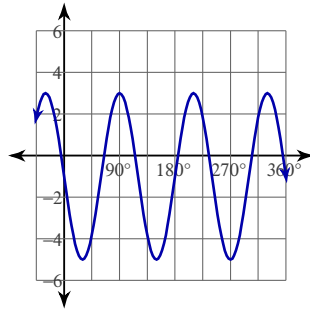
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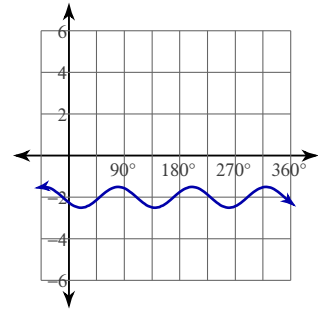
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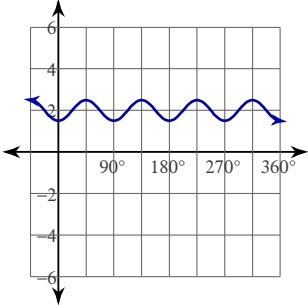
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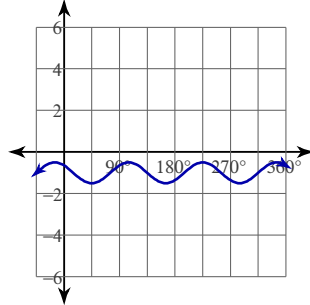
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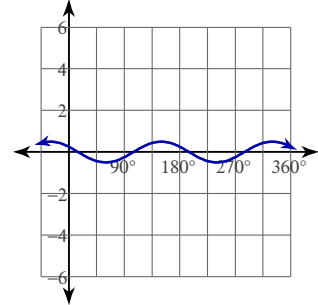
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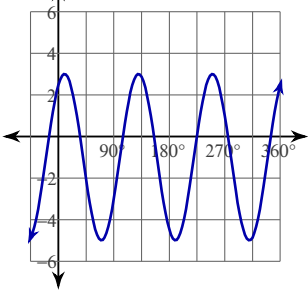
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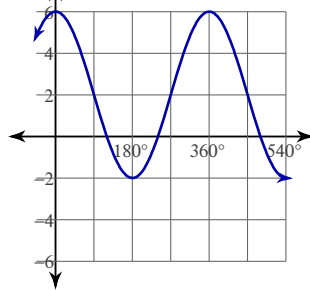
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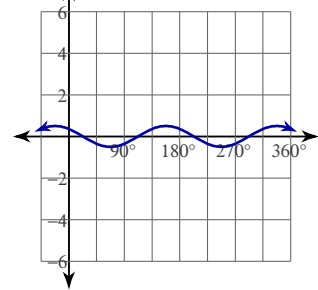
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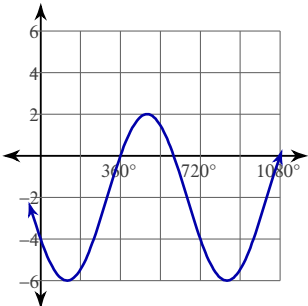
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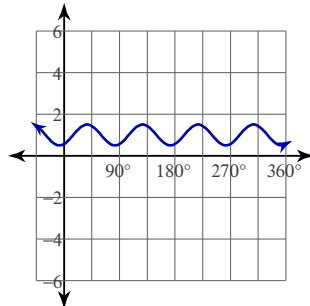
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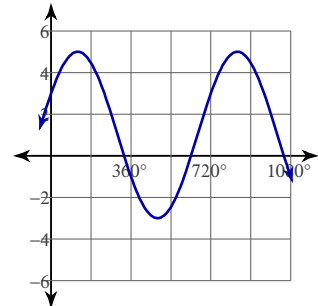
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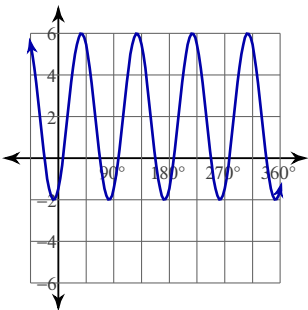
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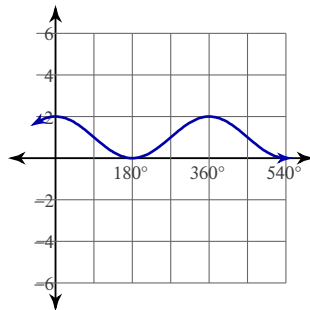
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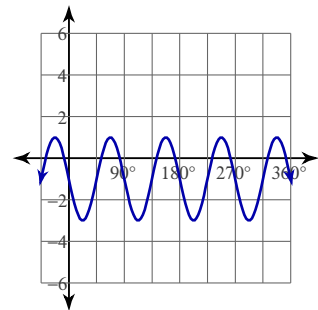
28)



29)



30)



Graphing Sinusoids

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Date _____

Graph each function using degrees.

$$1) y = \frac{1}{2} \cdot \sin \frac{\theta}{2}$$

$$3) y = 4\sin(3\theta + 60) - 1$$

$$5) y = 4\sin 3\theta$$

$$7) y = 4\sin \frac{\theta}{4} + 1$$

$$9) y = 2\sin(\theta + 120) + 2$$

$$11) y = \sin 3\theta + 1$$

$$13) y = \frac{1}{2} \cdot \cos(-4\theta + 120) - 1$$

$$15) y = 4\cos(-4\theta + 150) - 1$$

$$17) y = \frac{1}{2} \cdot \sin(\theta - 90) - 2$$

$$19) y = 4\cos(3\theta - 30) - 1$$

$$21) y = 4\sin(-4\theta + 240) - 1$$

$$23) y = 2 + \sin(\theta - 210)$$

$$25) y = 3\sin\left(\frac{\theta}{4} - 270\right) - 1$$

$$27) y = \frac{1}{2} \cdot \sin(-2\theta - 90) - 1$$

$$29) y = 2\cos(3\theta + 135) - 2$$

$$2) y = 4\sin(3\theta + 45) + 1$$

$$4) y = -2 + \frac{1}{2} \cdot \cos(3\theta - 30)$$

$$6) y = \frac{1}{2} \cdot \sin(-3\theta + 150) - 2$$

$$8) y = \frac{1}{2} \cdot \sin(2\theta + 135) + 2$$

$$10) y = 3\sin(4\theta - 60) + 1$$

$$12) y = \sin\left(\frac{\theta}{3} + 240\right) + 2$$

$$14) y = 4\cos(-2\theta - 150) + 2$$

$$16) y = \frac{1}{2} \cdot \sin(4\theta - 60) - 2$$

$$18) y = 1 + \frac{1}{2} \cdot \sin(3\theta - 150)$$

$$20) y = 2 + \frac{1}{2} \cdot \cos \theta$$

$$22) y = 4\cos(2\theta + 150) + 1$$

$$24) y = 3\sin \theta + 2$$

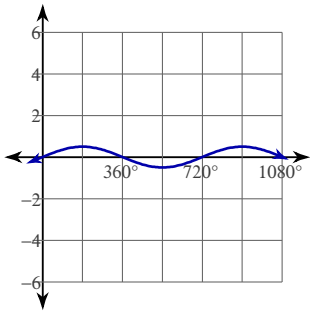
$$26) y = -1 + 2\sin(\theta - 30)$$

$$28) y = 2 + 3\cos\left(\frac{\theta}{2} - 60\right)$$

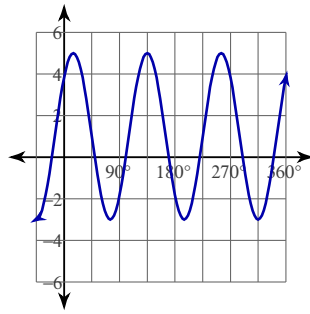
$$30) y = \frac{1}{2} \cdot \cos(4\theta + 330) - 1$$

Answers to Graphing Sinusoids (ID: 4)

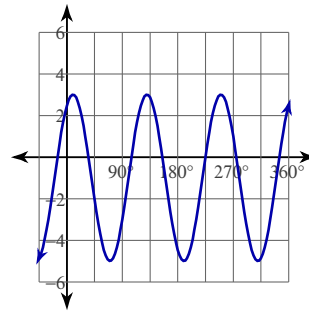
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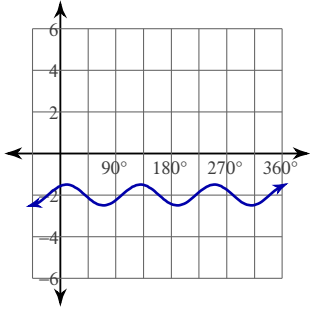
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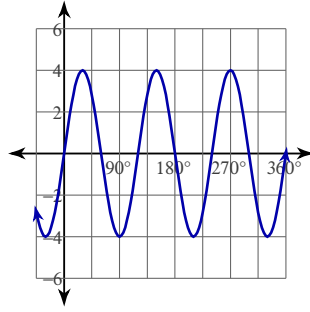
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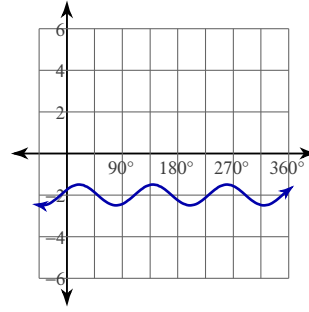
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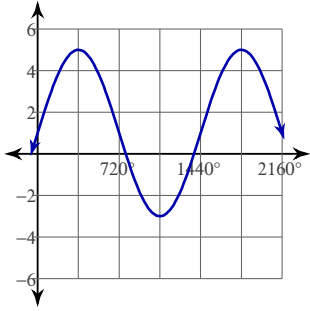
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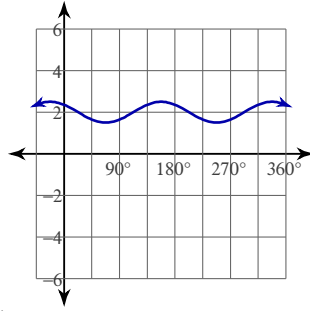
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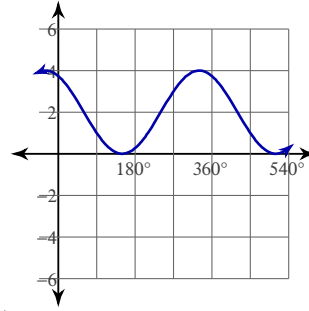
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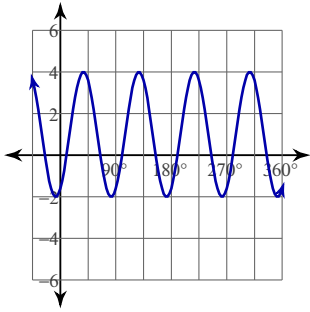
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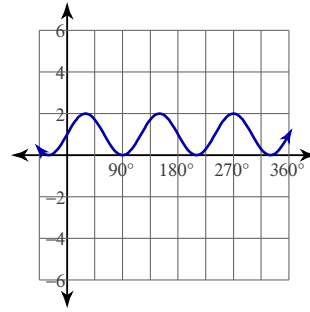
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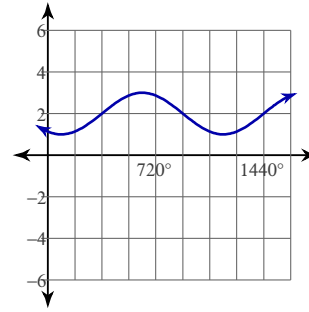
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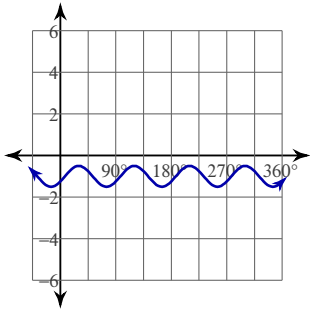
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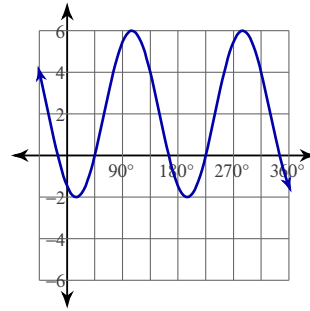
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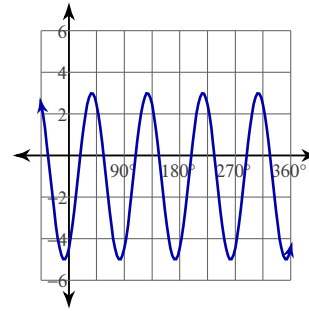
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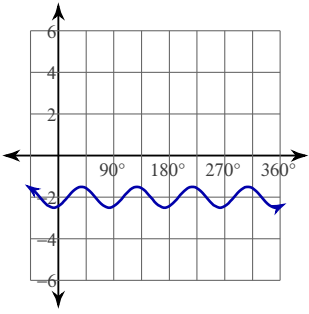
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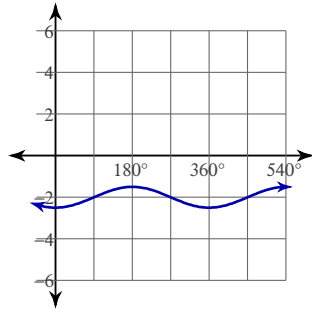
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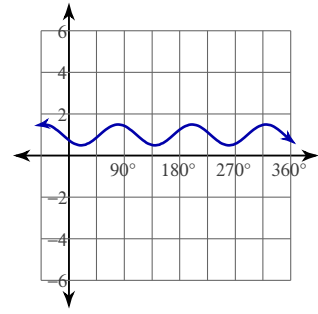
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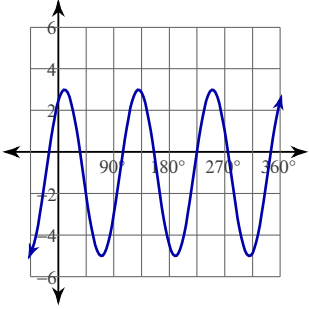
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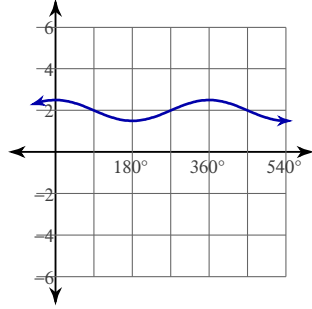
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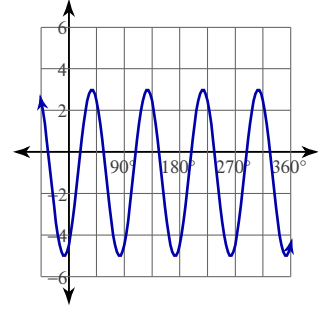
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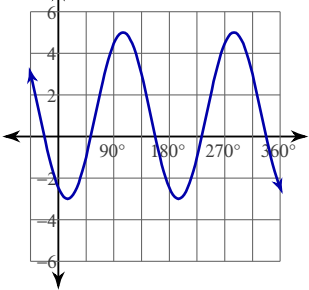
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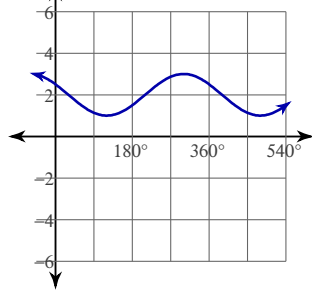
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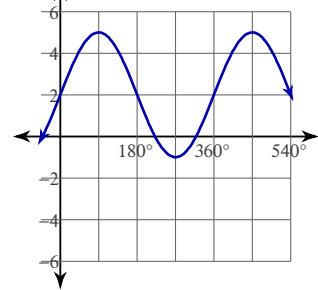
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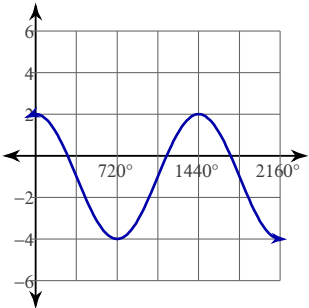
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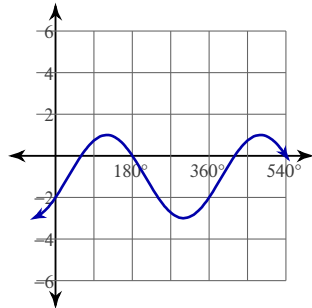
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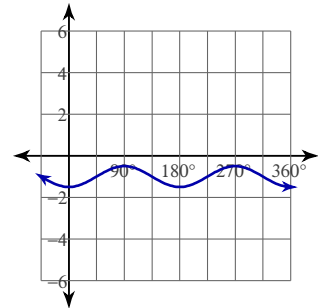
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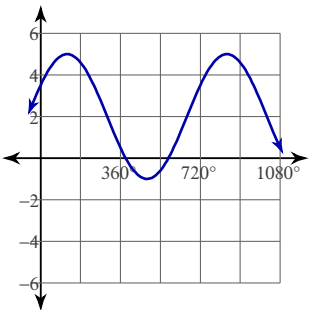
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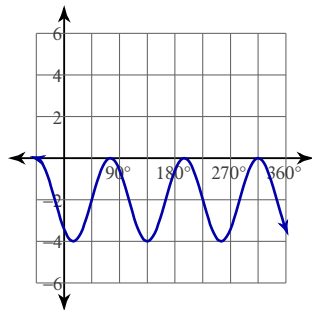
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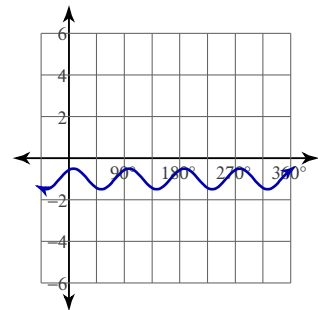
28)



29)



30)



Graphing Sinusoids

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Date _____

Graph each function using degrees.

1) $y = 4\cos(-2\theta - 135) + 1$

2) $y = \frac{1}{2} \cdot \cos\left(\frac{\theta}{4} - 30\right) + 1$

3) $y = 1 + 3\sin(3\theta + 210)$

4) $y = 4\sin(-3\theta - 240) - 2$

5) $y = 4\cos(4\theta - 135) + 2$

6) $y = 2\sin(4\theta - 90) - 1$

7) $y = 3\sin(-3\theta - 30) - 1$

8) $y = 2\cos - \frac{\theta}{4} - 1$

9) $y = 4\cos(2\theta - 300) - 2$

10) $y = 4\cos\left(\frac{\theta}{4} - 45\right) - 2$

11) $y = 3\sin\left(\frac{\theta}{2} - 90\right) + 2$

12) $y = \frac{1}{2} \cdot \sin(2\theta + 270) + 2$

13) $y = 4\cos\left(\frac{\theta}{2} + 240\right) - 2$

14) $y = -2 + \frac{1}{2} \cdot \sin(-4\theta + 45)$

15) $y = 3\cos(4\theta + 120) - 2$

16) $y = -2 + 4\sin\left(\frac{\theta}{4} - 240\right)$

17) $y = 1 + 2\cos(2\theta + 90)$

18) $y = 2\sin(2\theta + 90) - 1$

19) $y = 2 + 2\cos(4\theta + 30)$

20) $y = 4\cos(3\theta - 60) + 1$

21) $y = 4\sin\left(\frac{\theta}{2} + 330\right) + 1$

22) $y = 3\cos \frac{\theta}{2} + 1$

23) $y = \frac{1}{2} \cdot \sin(2\theta + 60) - 1$

24) $y = 2\sin(-3\theta + 30) + 2$

25) $y = -1 + \frac{1}{2} \cdot \sin\left(-\frac{\theta}{4} + 60\right)$

26) $y = 3\sin(4\theta - 270) - 2$

27) $y = 3\cos(2\theta + 60) + 1$

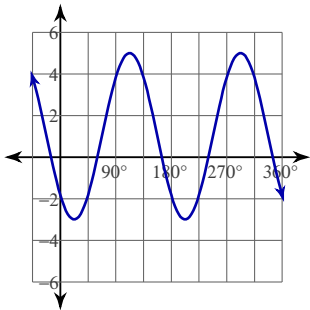
28) $y = -2 + 4\cos(-2\theta + 150)$

29) $y = 2\sin(2\theta + 300) + 2$

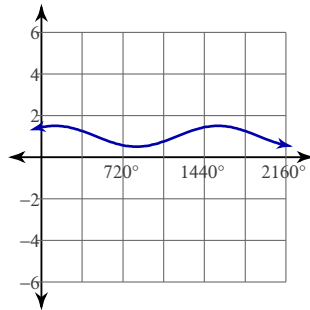
30) $y = 4\sin\left(\frac{\theta}{4} - 30\right) - 2$

Answers to Graphing Sinusoids (ID: 5)

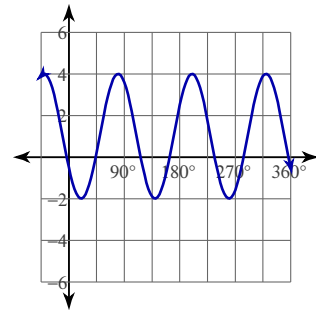
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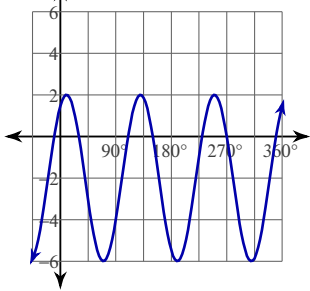
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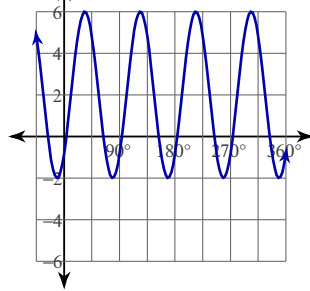
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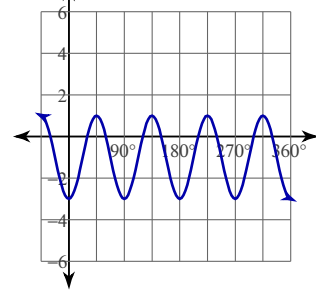
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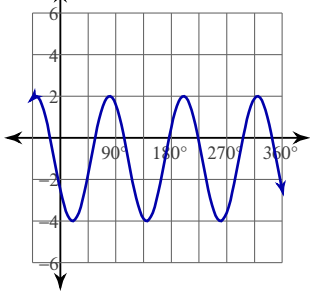
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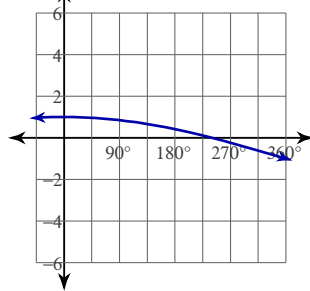
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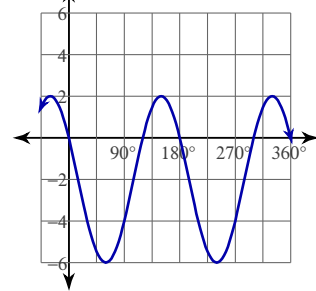
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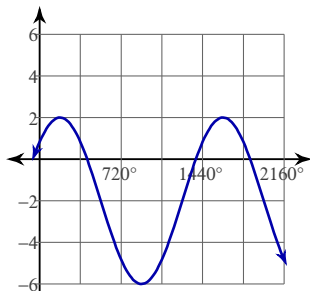
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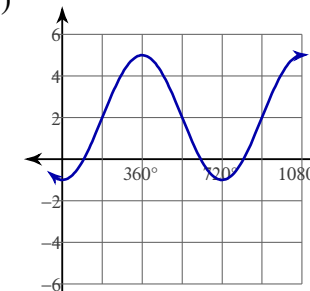
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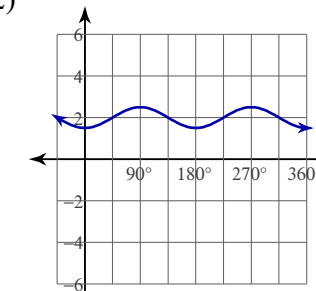
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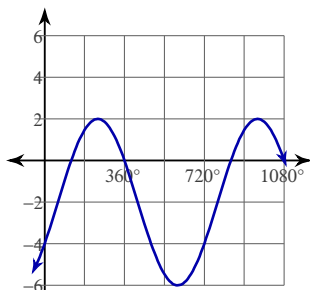
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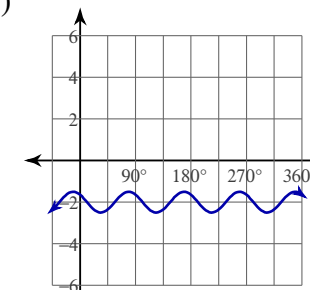
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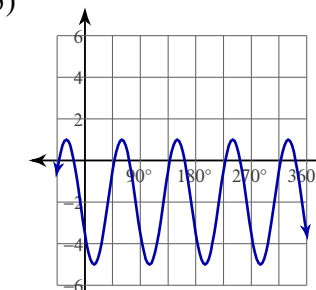
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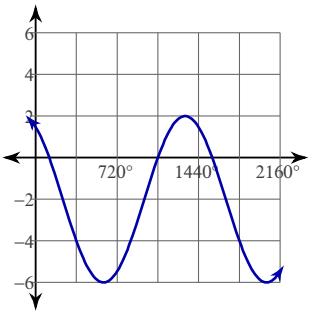
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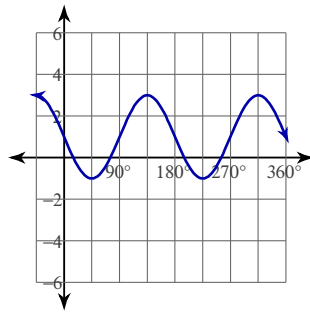
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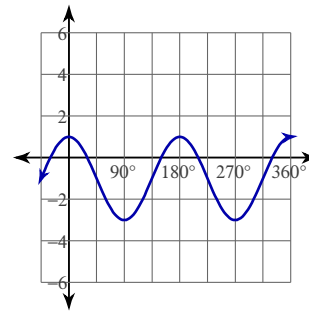
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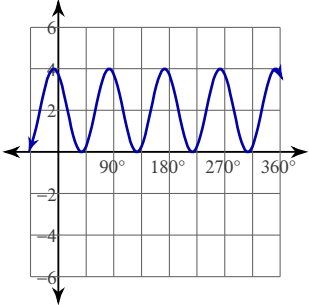
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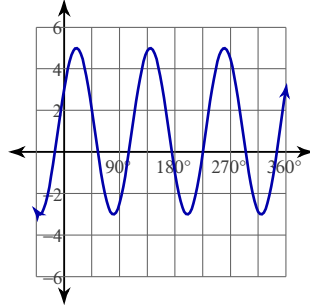
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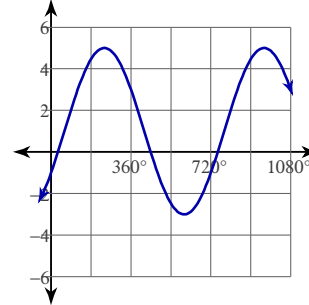
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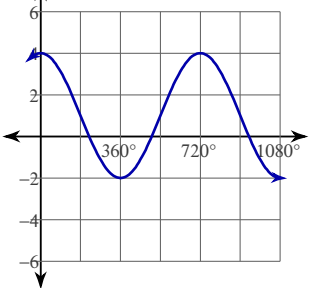
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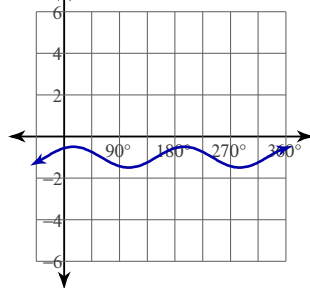
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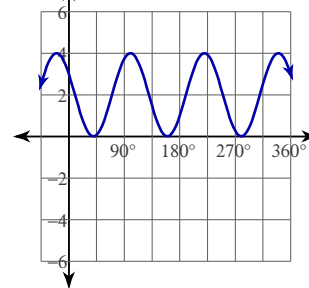
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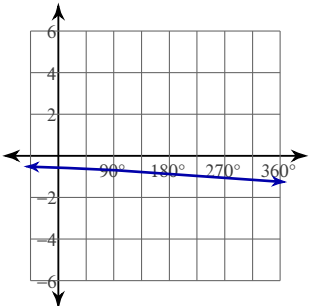
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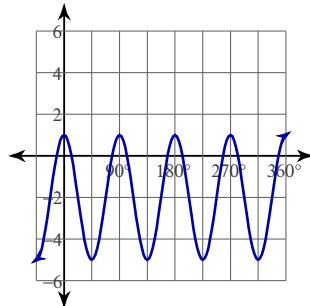
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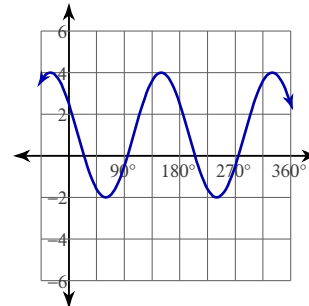
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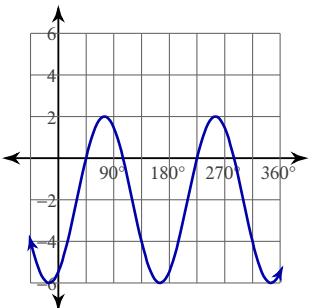
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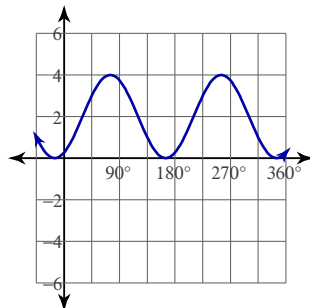
27)



28)



29)



30)

