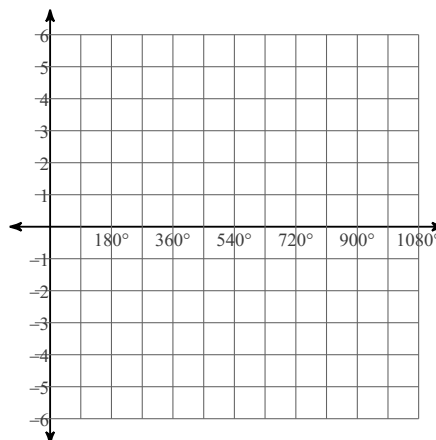
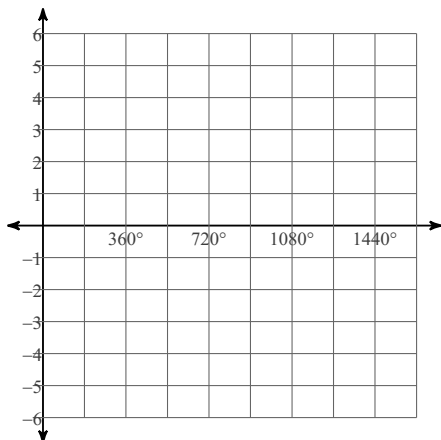


Graphing sine and cosine functions (M3 6.4) practice

Using degrees, find the amplitude and period of each function. Then graph.

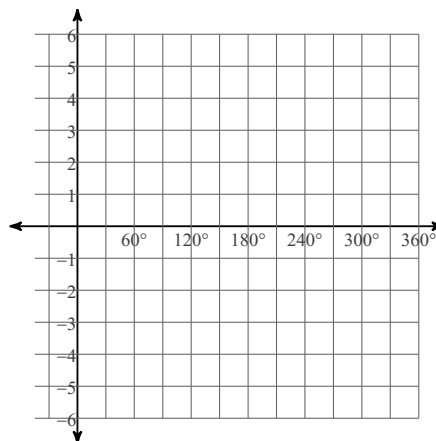
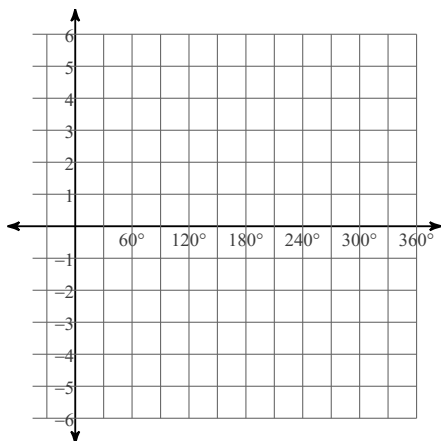
1) $y = 2\cos \frac{\theta}{3}$

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



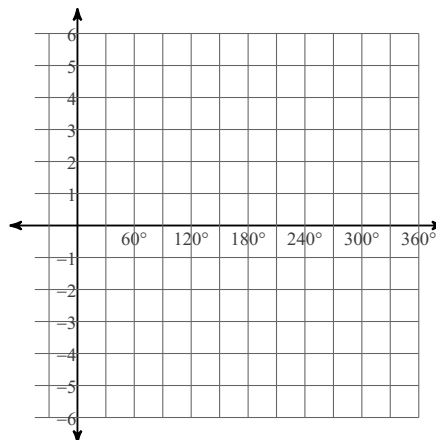
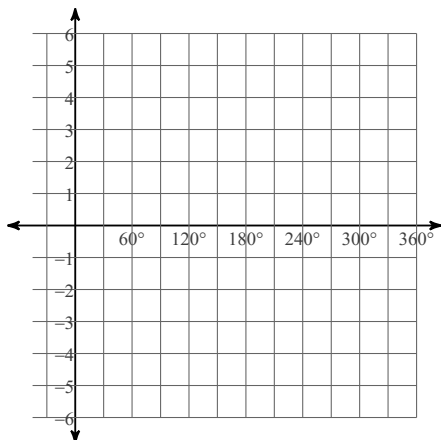
3) $y = 2\sin 3\theta$

4) $y = \sin 2\theta$

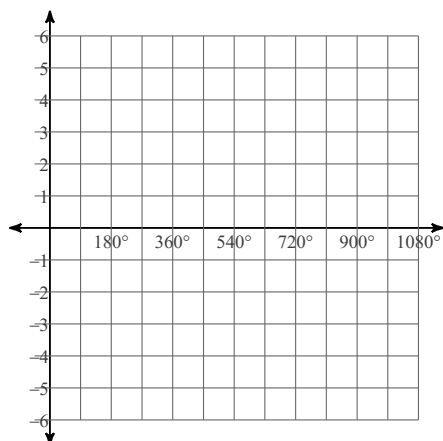


5) $y = \frac{1}{2} \cdot \sin 2\theta$

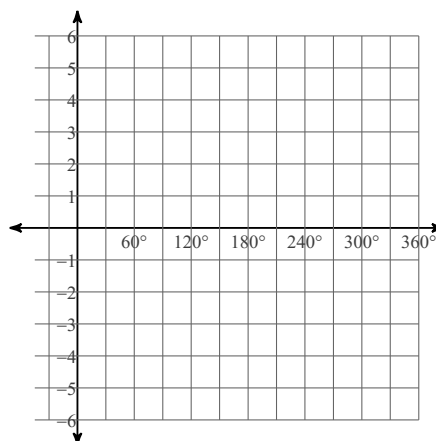
6) $y = \frac{1}{2} \cdot \cos 4\theta$



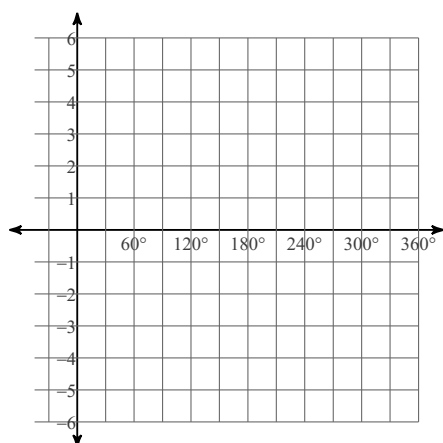
$$7) y = 2 + \frac{1}{2} \cdot \sin \frac{\theta}{2}$$



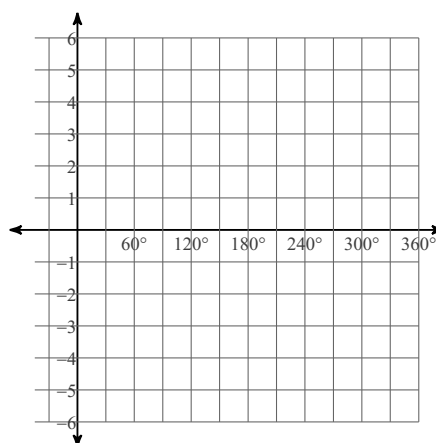
$$8) y = \frac{1}{2} \cdot \cos 4\theta - 1$$



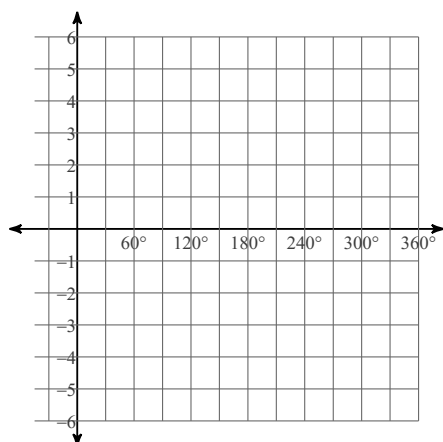
$$9) y = -1 + 3\cos 2\theta$$



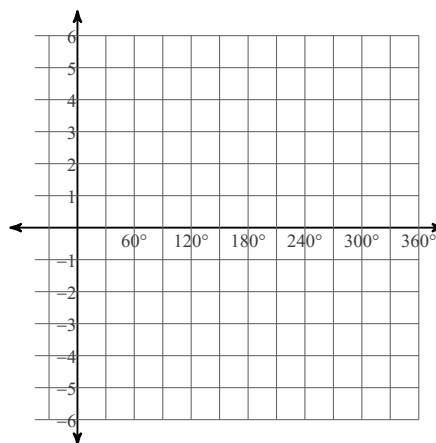
$$10) y = 2\cos 3\theta + 2$$



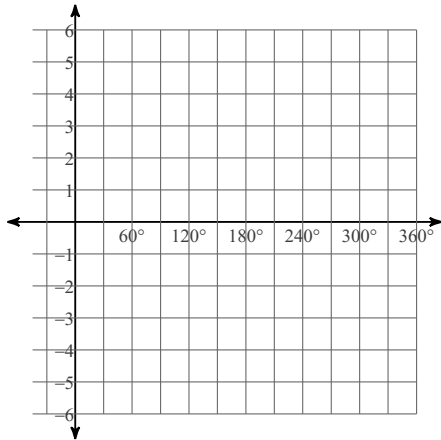
$$11) y = 4\cos 2\theta - 2$$



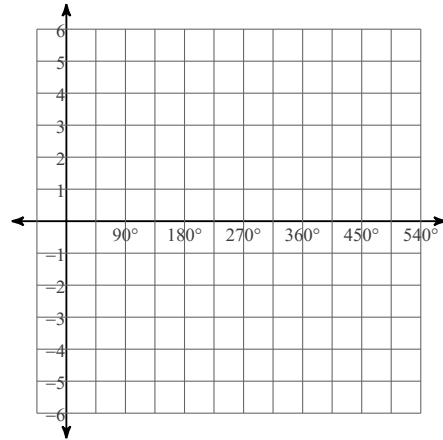
$$12) y = \frac{1}{2} \cdot \sin 2\theta + 1$$



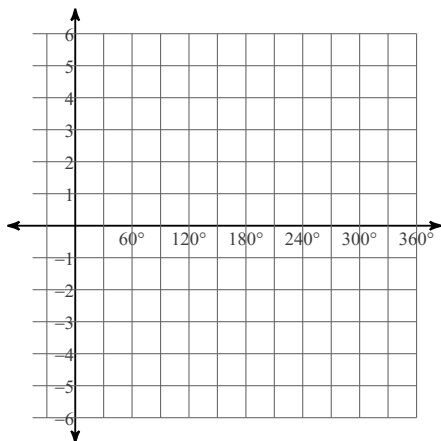
$$13) y = \frac{1}{2} \cdot \sin(3\theta - 210) - 2$$



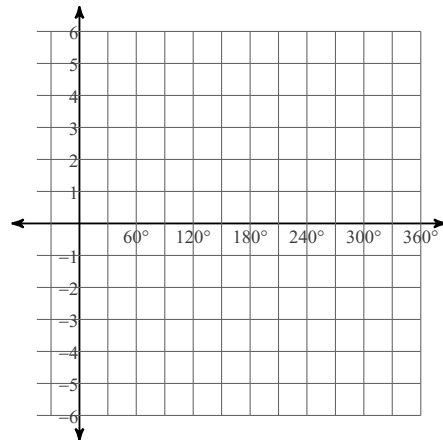
$$14) y = \cos \theta - 2$$



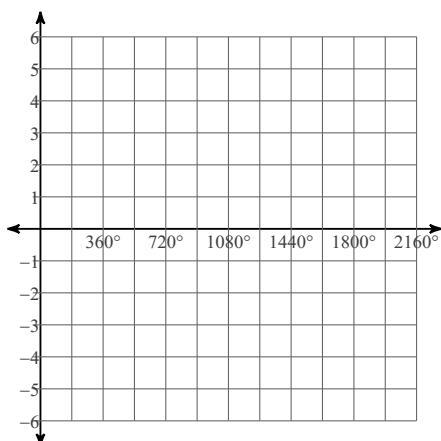
$$15) y = 4\sin(3\theta - 45) - 1$$



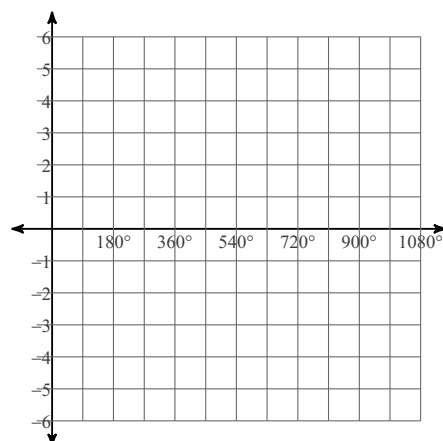
$$16) y = \frac{1}{2} \cdot \sin(2\theta - 240) + 1$$



$$17) y = 3\sin\left(\frac{\theta}{4} - 90\right) - 1$$

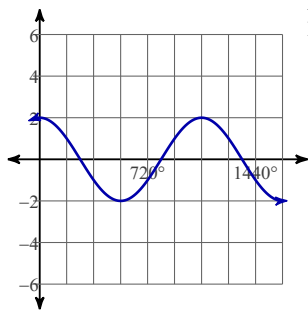


$$18) y = 4\cos\left(\frac{\theta}{2} - 135\right) - 2$$



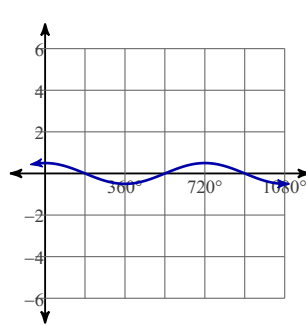
Answers to Graphing sine and cosine functions (M3 6.4) practice

1)



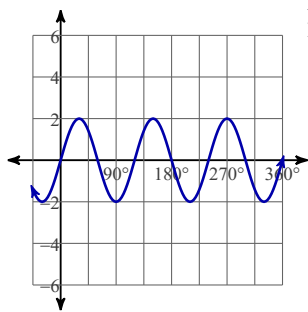
Amplitude: 2
Period: 1080°

2)



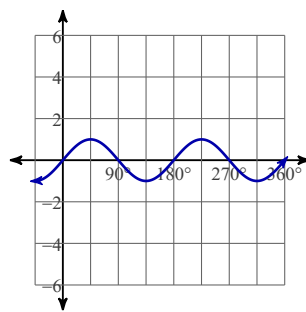
Amplitude: $\frac{1}{2}$
Period: 720°

3)



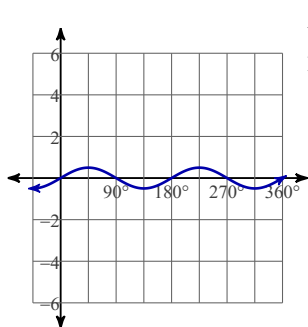
Amplitude: 2
Period: 120°

4)



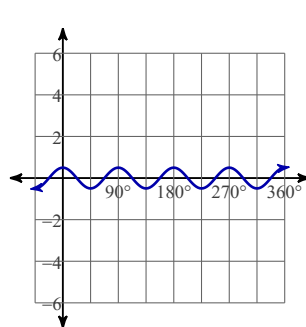
Amplitude: 1
Period: 180°

5)



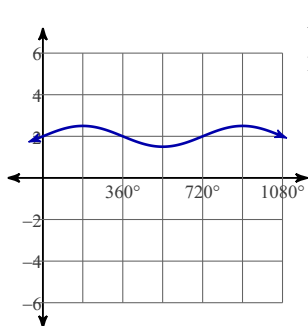
Amplitude: $\frac{1}{2}$
Period: 180°

6)



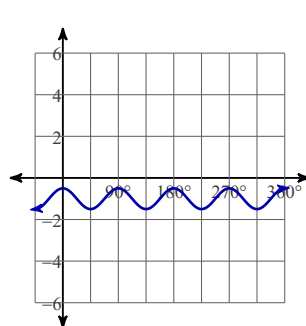
Amplitude: $\frac{1}{2}$
Period: 90°

7)



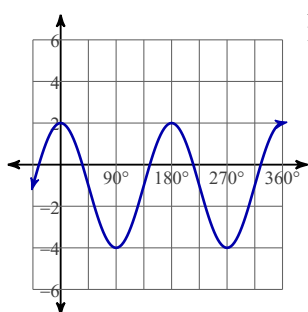
Amplitude: $\frac{1}{2}$
Period: 720°

8)



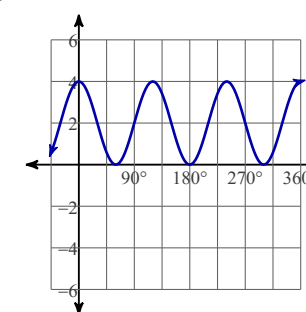
Amplitude: $\frac{1}{2}$
Period: 90°

9)



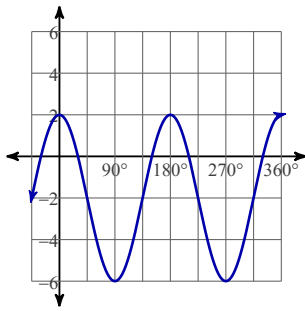
Amplitude: 3
Period: 180°

10)



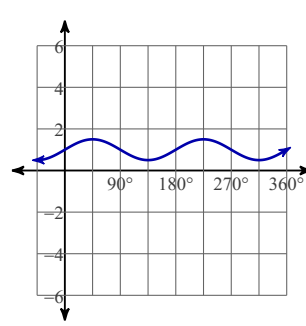
Amplitude: 2
Period: 120°

11)



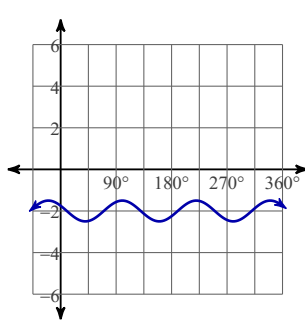
Amplitude: 4
Period: 180°

12)



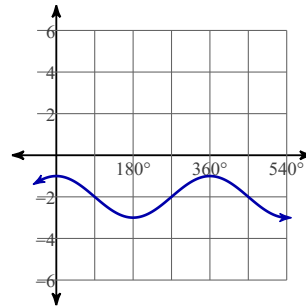
Amplitude: $\frac{1}{2}$
Period: 180°

13)



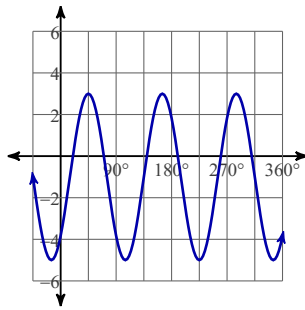
Amplitude: $\frac{1}{2}$
Period: 120°

14)



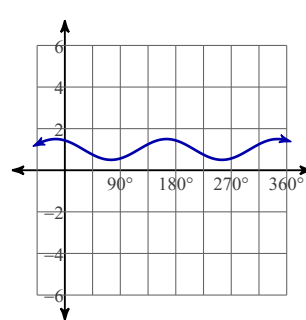
Amplitude: 1
Period: 360°

15)



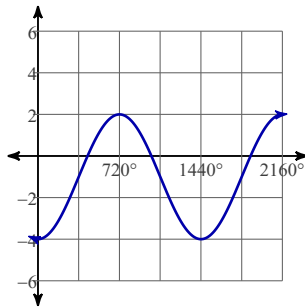
Amplitude: 4
Period: 120°

16)



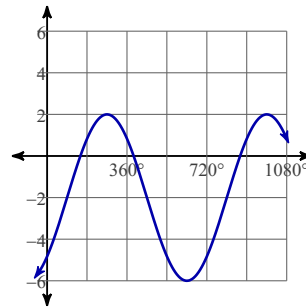
Amplitude: $\frac{1}{2}$
Period: 180°

17)



Amplitude: 3
Period: 1440°

18)



Amplitude: 4
Period: 720°