10.1 Amplitude and Midline

Corrective Assignment

NAME:_____

DATE:_____

State the amplitude and midline of the following trig functions.

1. $f(x) = 2\sin(x) - 1$

Amplitude: Midline:

2. $f(\theta) = \frac{3}{4}\cos(\theta) + 2$

Amplitude: Midline:

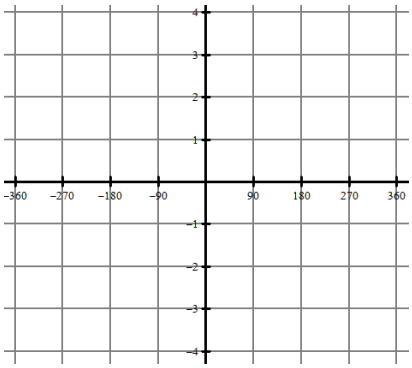
3. $h(x) = -3\sin(x) + 4$

Amplitude: Midline:

State the amplitude and midline. Graph the trig function on the interval $0° \leq x \leq 360°$

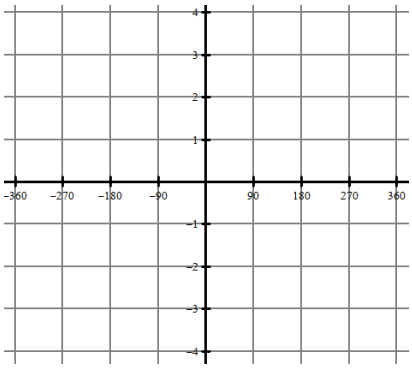
4. $f(x) = 2\sin(x)$

Amplitude: Midline:



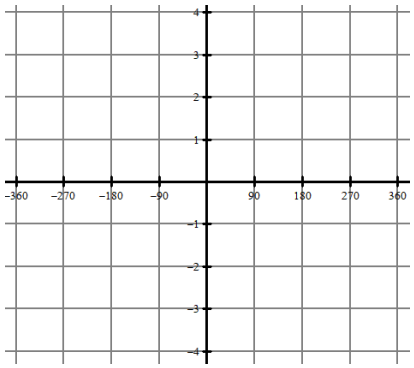
5. $f(x) = -2\cos(x) + 1$

Amplitude: Midline:



6. $h(x) = \frac{1}{2}\sin(x) + 2$

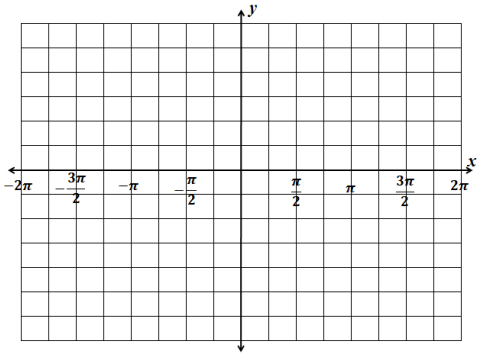
Amplitude: Midline:



State the amplitude and midline. Graph the trig function on the interval $-2\pi \leq x \leq 2\pi$

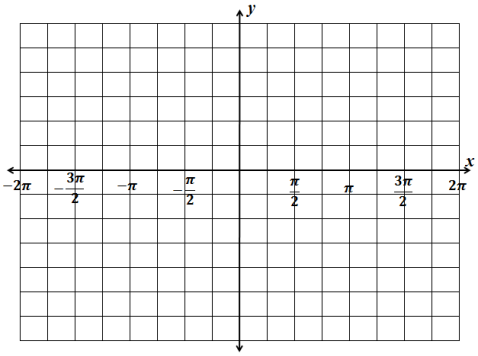
7. $f(x) = 3\sin(x) - 2$

Amplitude: Midline:



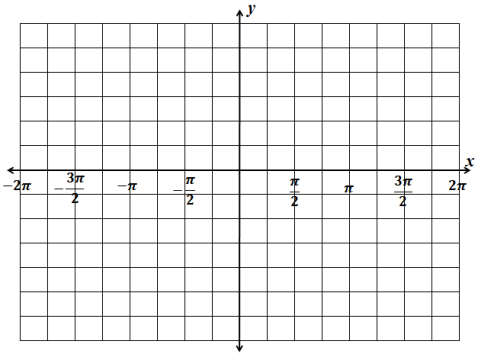
8. $f(x) = -2\cos(x)$

Amplitude: Midline:



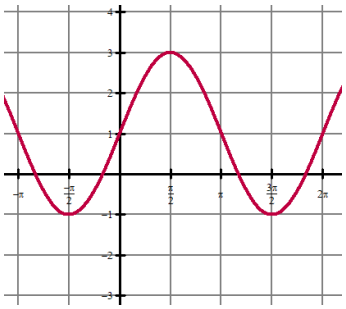
9. $h(x) = -\sin(x) - 3$

Amplitude: Midline:



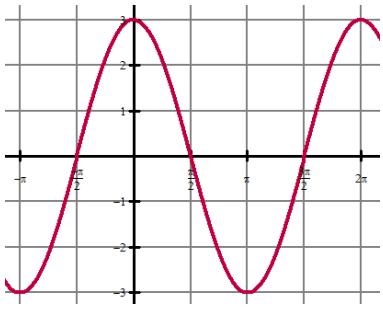
Write the equation of the following trig functions.

10.



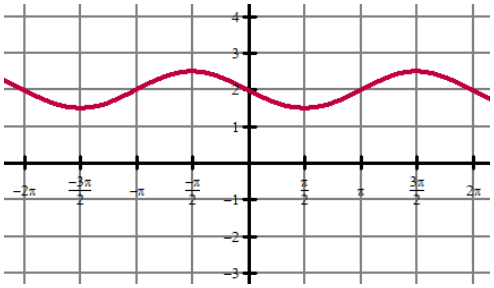
$f(\theta) =$ _____

11.



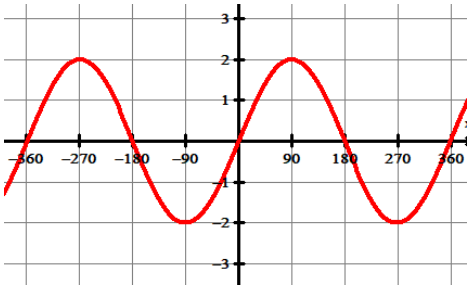
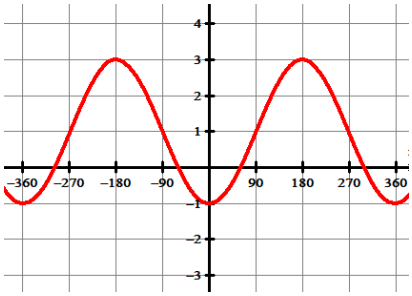
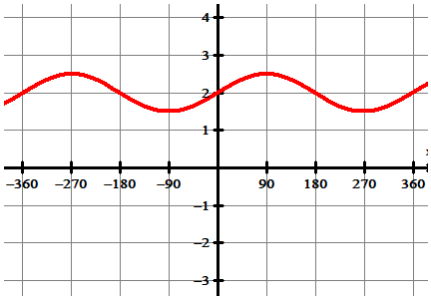
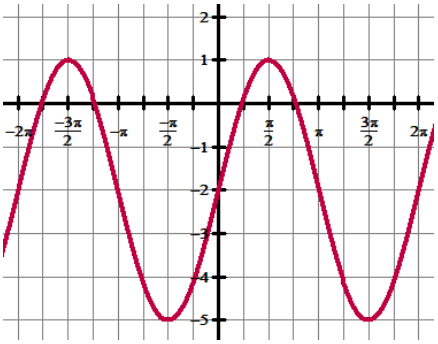
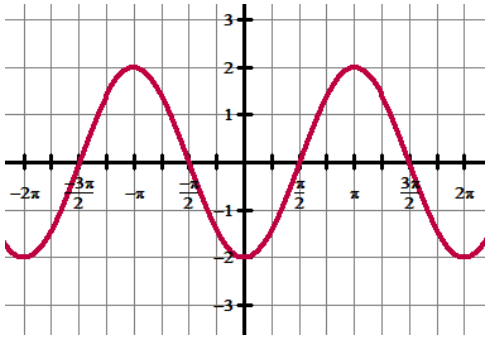
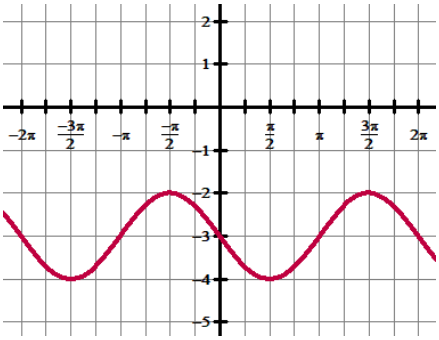
$f(x) =$ _____

12.



$f(\theta) =$ _____

ANSWERS TO 10.1 CORRECTIVE ASSIGNMENT

1. Amplitude: 2 Midline: $y = -1$	2. Amplitude: $\frac{3}{4}$ Midline: $y = 2$	3. Amplitude: -3 Midline: $y = 4$
4. Amplitude: 2 Midline: $y = 0$ 	5. Amplitude: 2 Midline: $y = 1$ 	6. Amplitude: $\frac{1}{2}$ Midline: $y = 2$ 
7. Amplitude: 3 Midline: $y = -2$ 	8. Amplitude: Midline: $y =$ 	9. Amplitude: Midline: $y =$ 
10. $f(\theta) = 2\sin(\theta) + 1$	11. $f(x) = 3\cos(x)$	12. $f(\theta) = -\frac{1}{2}\sin(\theta) + 2$