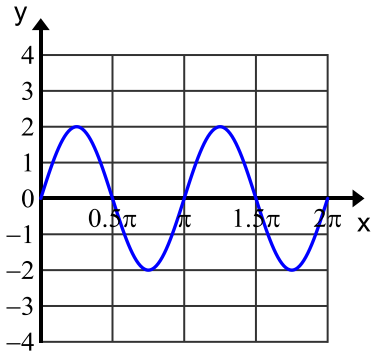


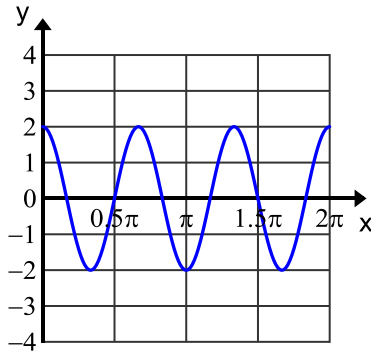
Chapter 10 Practice Test 2

Name _____

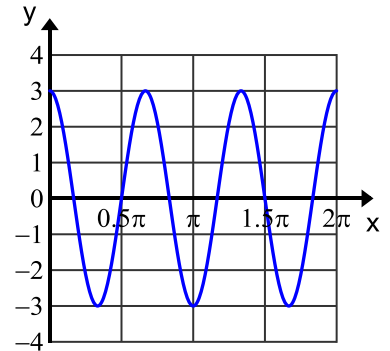
Graph 1



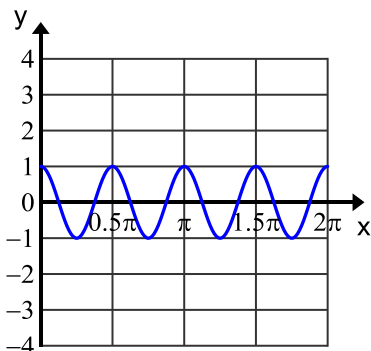
Graph 2



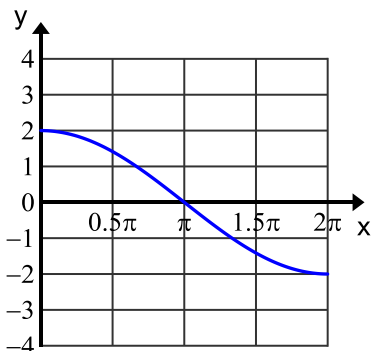
Graph 3



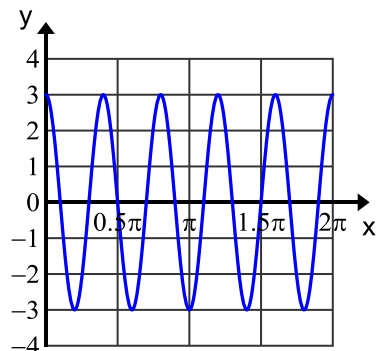
Graph 4



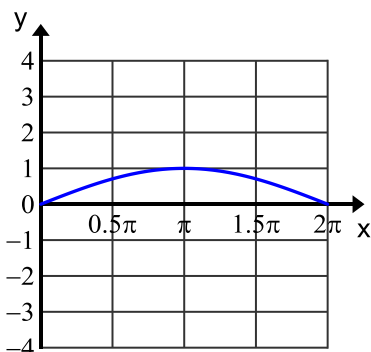
Graph 5



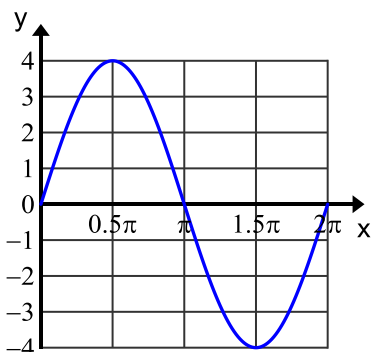
Graph 6



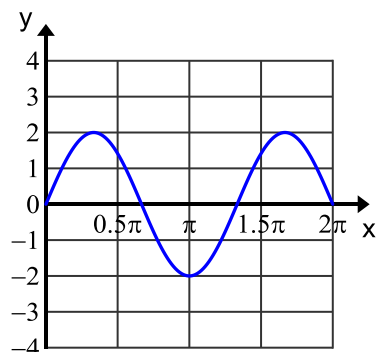
Graph 7



Graph 8



Graph 9



Graph 1 = _____

Graph 2 = _____

Graph 3 = _____

Graph 4 = _____

Graph 5 = _____

Graph 6 = _____

Graph 7 = _____

Graph 8 = _____

Graph 9 = _____

Take the given equations and state the amplitude, period, and phase shift of each.

10. $y = 3 \sin(2\theta + 10)$

amplitude: _____

period: _____

phase shift: _____

11. $y = 2 \cos(3\theta - 30^\circ)$

amplitude: _____

period: _____

phase shift: _____

12. $y = 2 \cos(10\theta - 60^\circ)$

amplitude: _____

period: _____

phase shift: _____

Write the equation of a sine function with each amplitude, period & phase shift.

13. amplitude = 5

period = 720°

phase shift = 10°

Equation: _____

14. amplitude = $\frac{1}{2}$

period = 360°

phase shift = -20°

Equation: _____

15. amplitude = 2

period = 180°

phase shift = 4°

Equation: _____

16. amplitude = 6

period = 90°

phase shift = -40°

Equation: _____

If α and β are the measures of two first quadrant angles, find the exact value of each function.

_____ 17. If $\sin \alpha = \frac{60}{61}$ and $\tan \beta = \frac{4}{3}$, find $\cos(\alpha + \beta)$

_____ 18. If $\sin \alpha = \frac{5}{13}$ and $\sin \beta = \frac{40}{41}$, find $\sin(\alpha - \beta)$

_____ 19. If $\sin \alpha = \frac{3}{5}$ and $\cos \beta = \frac{40}{41}$, find $\sin(\alpha + \beta)$

