

Name: _____

Precalculus

Quiz 2 over 5.4

Period

$$y = A \sin B(x + C) + D$$

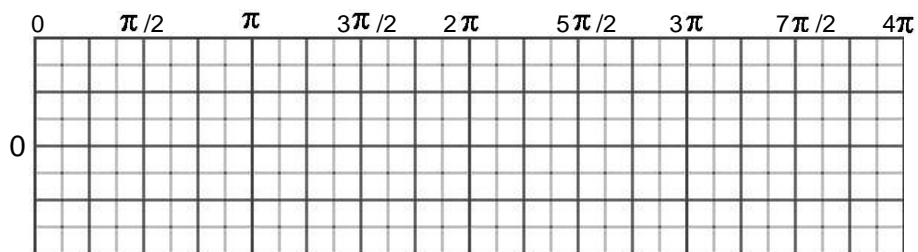
Find the amplitude and period of these functions.

| | <i>Amplitude</i> | <i>Period</i> |
|-----------------------------|------------------|---------------|
| 1) $y = 3\sin\frac{2t}{3}$ | _____ | _____ |
| 2) $y = \cos 5t$ | _____ | _____ |
| 3) $y = -2\sin\frac{4t}{3}$ | _____ | _____ |
| 4) $y = \frac{1}{5}\sin 3t$ | _____ | _____ |
| 5) $y = \sin 8t$ | _____ | _____ |

Graph completely across the given coordinate system.

Graph $y = A\cos Bt$

6) $A = 1, P = \pi$



Graph $y = A\sin Bt$

7) $A = 2, P = \frac{4\pi}{3}$

