

Write an equation of the sine function given the following characteristics.

1. amplitude: 5 period: 360° phase shift: 60°

2. amplitude: $\frac{2}{3}$ period: π phase shift: $\frac{\pi}{4}$

3. amplitude: 17 period: 45° phase shift: -60°

4. amplitude: $\frac{1}{2}$ period: $\frac{3\pi}{2}$ phase shift: $-\frac{\pi}{4}$

5. amplitude: 7 period: 225° phase shift: -90°

Write an equation of the cosine function given the following characteristics.

6. amplitude: $\frac{1}{3}$ period: 180° phase shift: 0

7. amplitude: 3 period: 180° phase shift: 120°

8. amplitude: 100 period: 630° phase shift: -90°

9. amplitude: $\frac{7}{3}$ period: 150° phase shift: 270°

10. amplitude: 1 period: $\frac{3\pi}{4}$ phase shift: $-\frac{\pi}{3}$