

1) $y = 3 \sin(2x)$

2) $y = 4 \cos(x/2)$

5. $y = 2 \sin 3x$

6. $y = 4 \cos 2x$

7. $y = -2 \cos 2t$

3) $y = -2 \sin (\pi x/5)$

4) $y = -3 \cos (3x)$

8. $y = -4 \sin \frac{t}{3}$

9. $y = \frac{1}{2} \cos 2\pi t$

10. $y = 1.5 \sin \frac{\pi}{2} x$

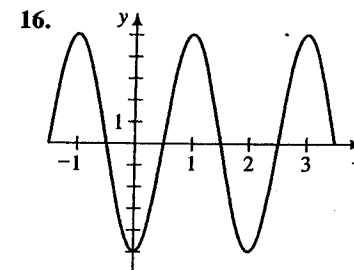
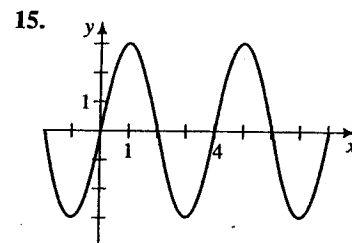
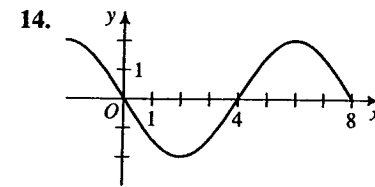
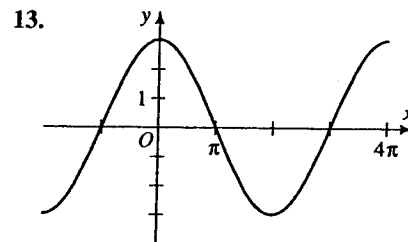
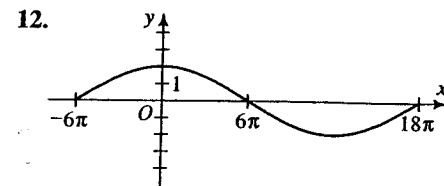
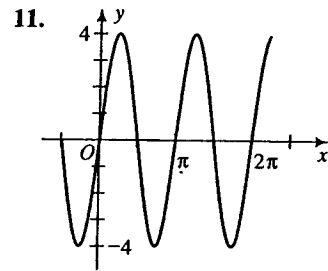
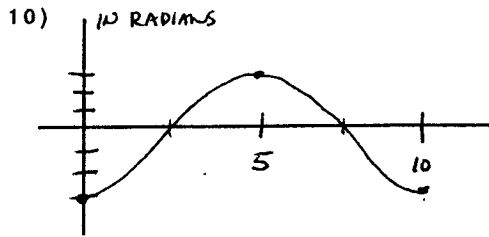
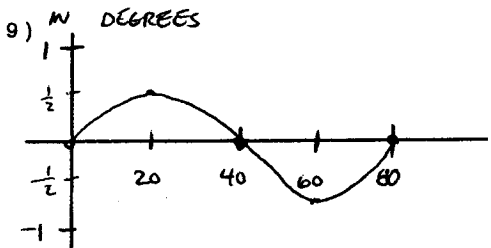
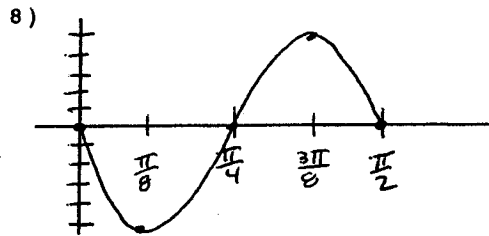
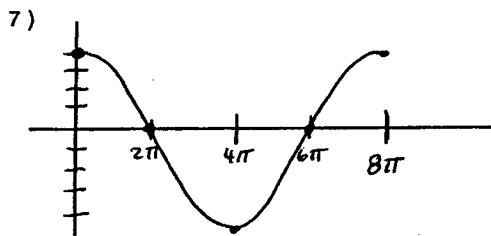
Give the amplitude, period, and an equation for each curve.

Draw the graph (using degrees)

5) $y = 5 \sin (10x)$

6) $y = -4 \cos (x/3)$

Write the equation of the given graph



For $y = 2 + 3 \cos 4(x - 5)$, what is the:

- Q1. period?
- Q2. amplitude?
- Q3. sinusoidal axis location?
- Q4. phase displacement?

Answer the following:

- Q5. Sketch the graph of $y = \cos x$.
- Q6. Find the exact value of $\sin \frac{2\pi}{3}$.
- Q7. Find the approximate value of $\cot 0.3^\circ$.
- Q8. Find the reference angle of 253° .
- Q9. Find the x -coordinate of the vertex of $y = x^2 + 7$.
- Q10. Find the prime factors of 51.

For Problems 1 through 14, write the particular equation of the sinusoid sketched.

