

Can Write on.

For #'s 1 and 2, state the amplitude, the period, phase shift, and vertical shift.

For #2, also write a sine and a cosine equation based on the window that the graph is shown.

1. $y = -2\sin(4x + 40^\circ) + 3$

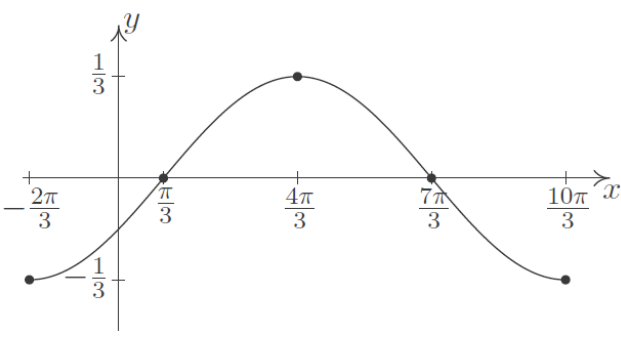
Amplitude: _____

Period: _____

Phase Shift: _____

Vertical Shift: _____

2.



Amplitude: _____

Period: _____

Phase Shift if sine: _____

Phase Shift if cosine: _____

Vertical Shift: _____

Sine Equation: _____

Cosine Equation: _____

Graph the following. Provide one positive and one negative cycle for each. Label your scale legibly.

3. $y = 3\sin\left(\frac{x}{3} + 10^\circ\right) + 2$ (Be careful with your phase shift)

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A = _____

B = _____

C = _____

D = _____

$\tau =$ _____

$\Delta Q =$ _____

4. $y = 2\cos 4\left(x + \frac{\pi}{3}\right) - 4$

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A = _____

B = _____

C = _____

D = _____

$\tau =$ _____

$\Delta Q =$ _____