



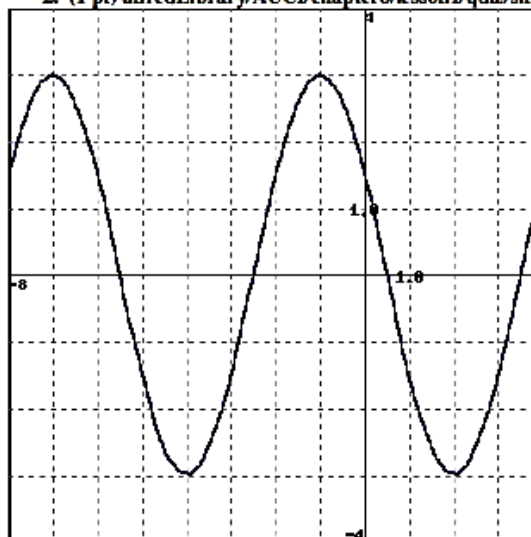
Quiz 6.1 – The Cosine and Sine Functions

1. (1 pt) [alfredLibrary/AUCI/chapter6/lesson1/quiz/genform1pet.pg](#)

Suppose $y = 4\pi \cos(-6t + 4) - 3$. In your answers, enter 'pi' for π .

- (a) The amplitude of the graph is _____.
- (b) The period of the graph is _____.
- (c) The phase (horizontal shift) of the graph is _____.
- (d) The midline (vertical shift) of the graph is $y =$ _____.

2. (1 pt) [alfredLibrary/AUCI/chapter6/lesson1/quiz/sinusoidal1pet.pg](#)



(Click on the graph to get a better look.)

The curve above is the graph of a sinusoidal function f that passes through the points $(-4, -3)$ and $(2, -3)$. Find a sinusoidal equation for f of the form $f(x) = A \cos(Bx - C) + D$. If needed, you can enter π as 'pi' in your answer, otherwise use at least 3 decimal digits.

$f(x) =$ _____