

Answer on Question #58631 – Math – Trigonometry

Question

1.

Consider the function $y = -2 - 3\cos(x + \pi)$.

What effect does the π have on the basic graph?

Horizontal shift right π units

Vertical stretch by factor π

Horizontal shift left π units

Vertical shift down π units

Answer: Horizontal shift left π units.

Question

2.

Which equation represents a phase shift of $\frac{\pi}{2}$ units left for the graph of $y = \cos x$?

$$y = \sec x$$

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

$$y = \sin\left(x - \frac{\pi}{2}\right)$$

$$y = \csc x$$

Answer: $y = \cos(x + \pi/2)$.