

MATH 150 Autumn 2005 Pre-Calculus

TA: Oguz KURT
Quiz 5

Name: _____

1. Consider the trigonometric function $y = -3 \cos(\pi x)$

[a] Find the amplitude and period.

Ans: $A = |-3|$ and $P = \frac{2\pi}{\pi} = 2$

[b] Graph one complete cycle, making sure to plot each of the "five key points".

Ans:

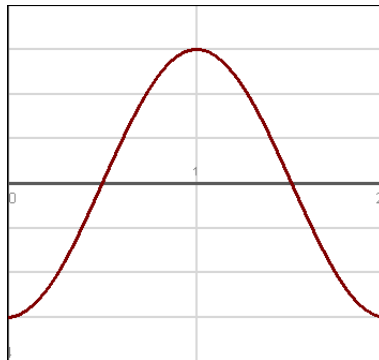


Figure 1: $y = -3 \cos(\pi x)$

[c] Extend your graph to the interval $[-3, 3]$

Ans:

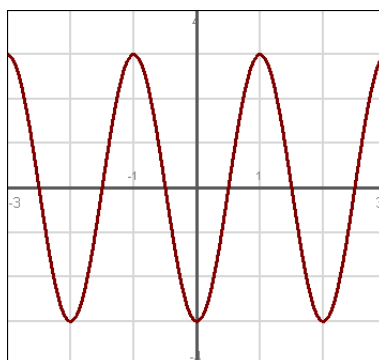


Figure 2: $y = -3 \cos(\pi x)$