Trigonometric Graphs Practice

1.

2.

3.

Name

travers

Which of the following represents the range of the trigonometric function $y = 7 \sin(x)$?



Which of the following is the period of $y = \cos(x)$?

(1)
$$\pi$$

(2) 2 (3) 2π
(4) $\frac{3\pi}{2}$

Which of the following equations describes the graph shown below?



4.

State the range of each of the following sinusoidal functions in interval form.

(b) $y = -8\cos(x) + 2$	(c) $y = 22\sin(x) + 30$
centerline = 2	centerline = 30
amp = 8	amp = 22
2+8 = 10	30+22 = 52
3-8 = -6	30-22 = 8
[-6,10]	[8,52]
	centertine = 2 amp = 8 2+8 = 10 2-8 = -6

Exercise #2: The height of a yo-yo above the ground can be modeled using the equation $h = 1.75 \cos(\pi t) + 2.25$, where h represents the height of the yo-yo in feet above the ground and t represents time in seconds since the yo-yo was first dropped from its maximum height.



5.