

October 18

If you could change one thing about
this class, what would it be?
What is one thing you would keep
the same?

October 18

Students will verbally explain how to
graph all six trig functions
(using the words:
zero, asymptote, undefined...)

3. Bryan is standing 2,000 feet from objects A and C. The observed angle between the objects is 48° . How far apart are objects A and C?

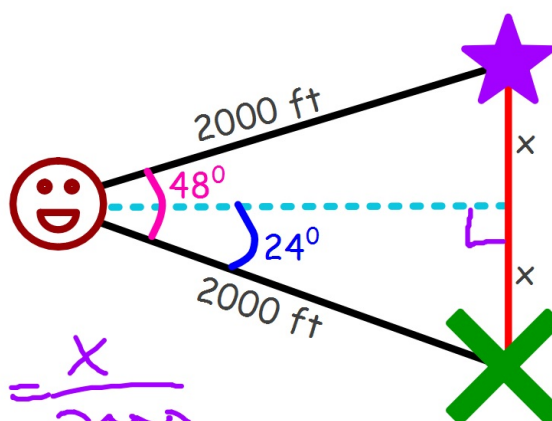
(A) $4,000 \sin 24^\circ$

(B) $2,000 \sin 48^\circ$

(C) $4,000 \sin 48^\circ$

(D) $2,000 \sin 24^\circ$

(E) $2,000 \cos 48^\circ$



$$\sin(24) = \frac{x}{2000}$$

$$2000 \sin(24) = x$$

5. In what quadrants is the $\cos(\theta)$ positive?

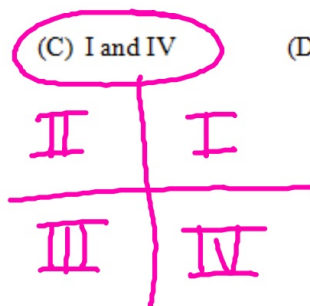
(A) I and II

(B) I and III

(C) I and IV

(D) II and III

(E) II and IV



6. Which angle is in the third quadrant?

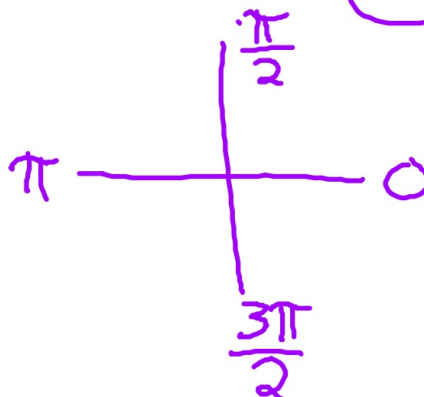
(A) $-\frac{11\pi}{6}$

(B) $-\frac{\pi}{6}$

(C) $\frac{5\pi}{6}$

(D) $\frac{7\pi}{6}$

(E) $\frac{23\pi}{6}$



$$\frac{12\pi}{6} + \frac{11\pi}{6}$$

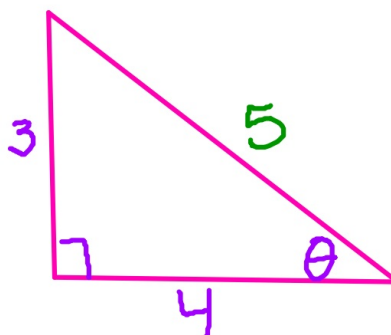
$$y = 3\sin(4x - \pi) + 7$$

$$\begin{array}{r} -3 \leq y \leq 3 \\ +7 \quad +7 \\ \hline 4 \leq y \leq 10 \end{array}$$

$$\tan \theta = \frac{3}{4}$$

$$\sec \theta = ?$$

$$\sec \theta = \frac{5}{4}$$



$$4x^3 - 2x^2$$

$$-3x^3 + 3x^2$$

$$-2x^3 - 4x^2$$

$$\begin{array}{r} 4x^3 - 2x^2 \\ -3x^3 + 3x^2 \\ -2x^3 - 4x^2 \\ \hline -x^3 - 3x^2 \end{array}$$

7. Evaluate:

$$(a) \cos\left(\frac{5\pi}{4}\right) = -\frac{\sqrt{2}}{2}$$

7. Evaluate:

$$(a) \sin\left(\frac{7\pi}{4}\right) = -\frac{\sqrt{2}}{2}$$

$$(b) \sin\left(\frac{-2\pi}{3}\right) = \sin\left(\frac{-2\pi}{3} + 2\pi\right) \quad (b) \cos\left(\frac{-5\pi}{6}\right)$$

$$(c) \tan\left(\frac{23\pi}{6}\right) \overset{\sin\left(\frac{4\pi}{3}\right) = -\frac{\sqrt{3}}{2}}{=} \tan\left(\frac{10\pi}{3}\right) = \tan\left(\frac{10\pi}{3} - 2\pi\right) \overset{\frac{6\pi}{3} \downarrow}{=} \tan\left(\frac{4\pi}{3}\right) = \sqrt{3}$$

Equation	Graph	Description of Graph	Endpoints or Midpoint
$y = 3 \sin\left(\frac{x}{2}\right) - 1$			
$y = -2 \sin(\pi x + 1)$			
$y = 3 \csc(\pi x)$			
$y = -3 \sec\left(\frac{1}{4}\left(x - \frac{\pi}{4}\right)\right) - 3$			
$y = 2 \sec(2x)$			
$y = -3 \cos\left(x + \frac{\pi}{4}\right)$			
$y = 2 \csc\left(x - \frac{\pi}{3}\right) + 3$			
$y = 2 \cos(\pi x) + 3$			