

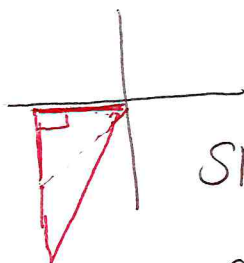
5) Write each measure in radians (work)

$$75^\circ = \frac{5\pi}{12}$$

$$-450^\circ = -5\pi/2$$

Find the exact sine, cosine, and tangent for each angle. Sketch and label a triangle. + Show work

6) -120° Δ in Quad III
ref $\angle = 60^\circ$

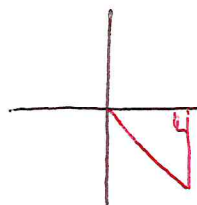


$$\sin(-120^\circ) = -\sqrt{3}/2$$

$$\cos(-120^\circ) = -1/2$$

$$\tan(-120^\circ) = \sqrt{3}$$

7) $-\pi/4$ Δ in QIV
ref $\angle = \pi/4$



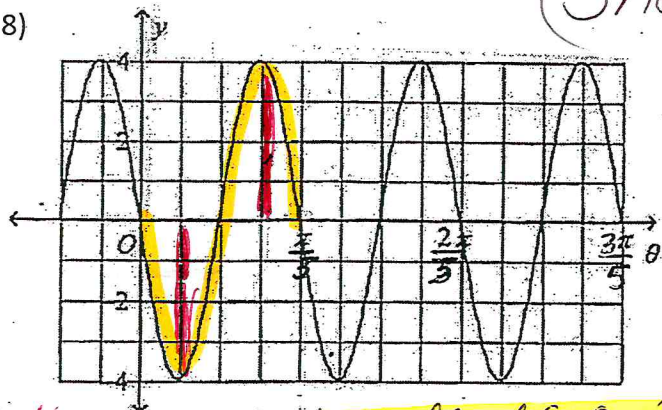
$$\sin(-\pi/4) = -\sqrt{2}/2$$

$$\cos(-\pi/4) = \sqrt{2}/2$$

$$\tan(-\pi/4) = -1$$

Write an equation for each given graph. (Show work!!)

8)



amp=4
w/ reflection

can't wall off $0-2\pi$,
so find P, use formula

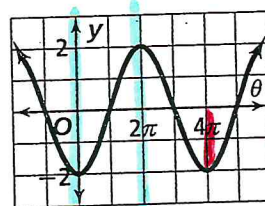
$a = -4$ $P = \pi/5$ $b = 2\pi/P = 2\pi \cdot \frac{5}{\pi} = 10$

Sketch a graph for the each given function.

10) $y = -\tan 2\pi\theta$ $P = \frac{\pi}{2\pi} = \frac{1}{2}$

θ	y
0	0
$1/4$	undefined
$1/2$	0
$3/4$	undefined
1	0

Make the graph
Guide Points
 $(1/8, -1)$ $(5/8, -1)$
 $(3/8, 1)$ $(7/8, 1)$



$b = 1/2$ cycle

$$y = -2\cos \frac{1}{2}\theta$$

amp=2
w/ reflect
 $a = -$

8) $y = -4\sin 10\theta$

11) $y = -2\cos 2\theta$ $P = \frac{2\pi}{2} = \pi$

θ	$-2y$
0	-2
$1/4\pi$	0
$1/2\pi$	2
$3/4\pi$	0
π	-2

Make the graph
extra points on
ends
 $(-1/4\pi, 0)$ &
 $(5/4\pi, 0)$