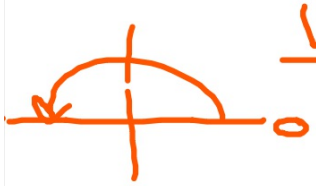
May 1, 2012

Alg2

Get out your homework

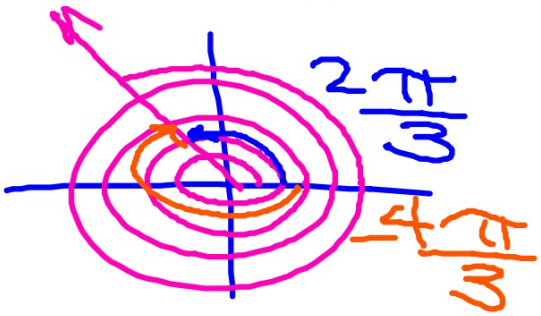
30) $\frac{3\pi}{16}$ supp. $8\frac{2}{3}\pi$



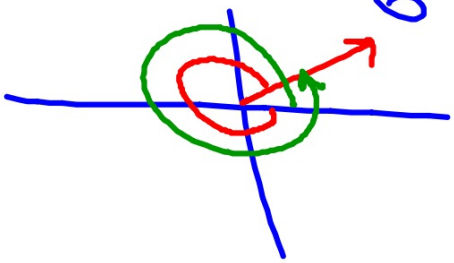
$\frac{16\pi}{16} - \frac{3\pi}{16}$

$= \frac{13\pi}{16}$

38) $\frac{26\pi}{3}$



12) $-\frac{11\pi}{6}$, $\frac{13\pi}{6}$



5/1 - Reference Angles and Evaluating Trig Functions

Draw each angle then determine the reference angle.

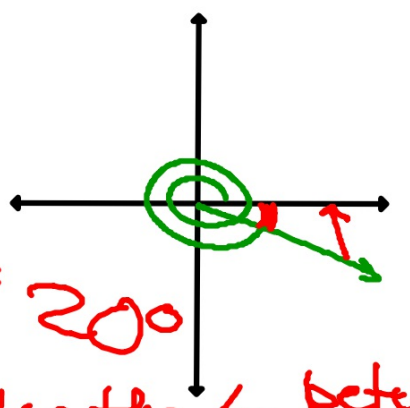
$\theta = 700^o$

-925°

720

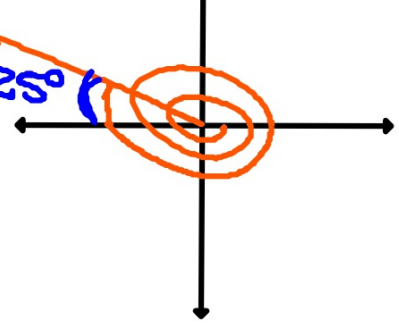
205

−180



$\theta' = 20^o$

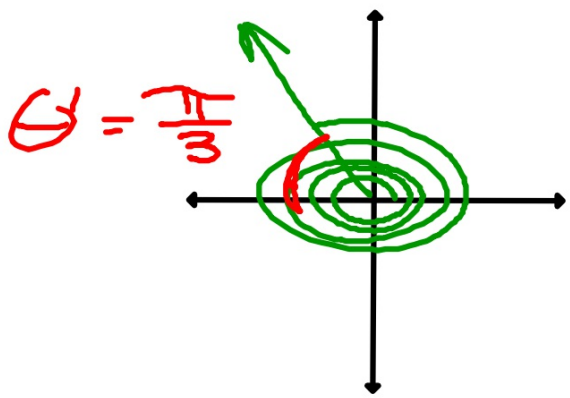
Use the ∠ between the terminal side and the x-axis.

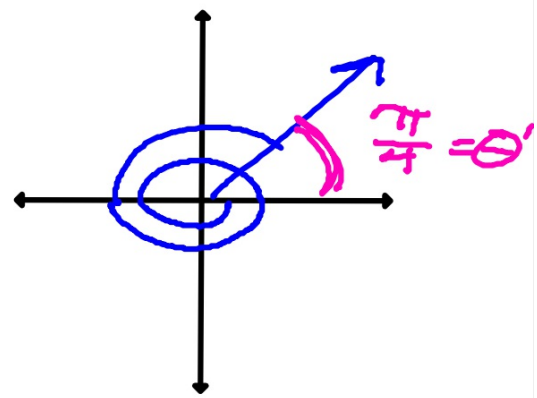


$\theta' = 25^o$

$$\frac{26\pi}{3} = 8\tfrac{2}{3}\pi$$

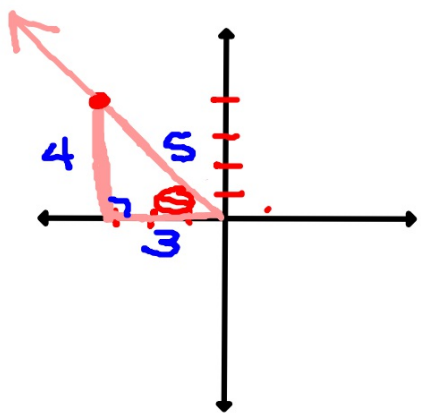
$$\frac{-15\pi}{4} = -3\tfrac{3}{4}\pi$$





You are given a point on the terminal side of an angle. Find the given trig functions using that angle.

$(-3,4)$



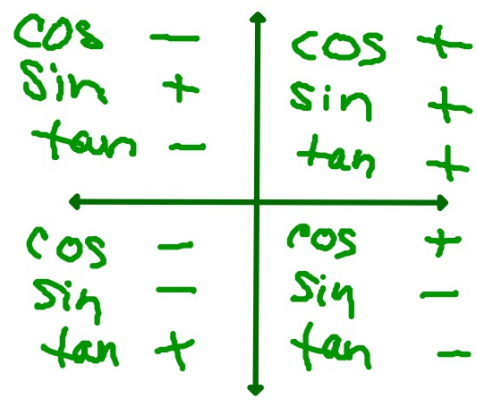
Cos refers to the x-value
Sin refers to the y-value
Tan refers to $\frac{y}{x}$

$Sin\,\theta = +\frac{4}{5}$

$Cos\,\theta = -\frac{3}{5}$

$Tan\,\theta = -\frac{4}{3}$

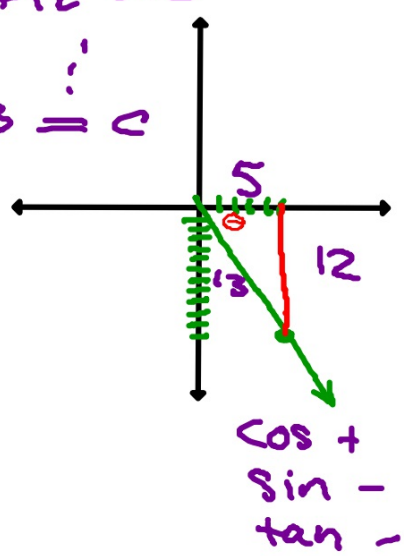
Sign Chart



$$(5,-12)$$

$5^2+12^2=c^2$

$13=c$



$\sin\theta = -\frac{12}{13}$

$\cos\theta = +\frac{5}{13}$

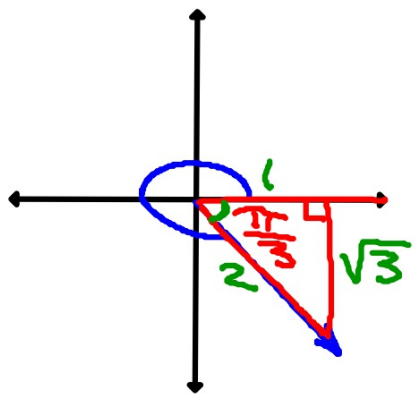
$\tan\theta = -\frac{12}{5}$

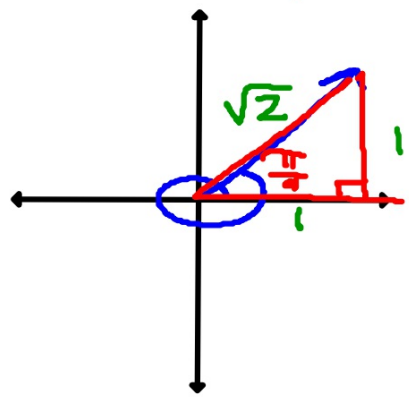
Find each.

$2\frac{1}{4}\pi$

$Sin\ \frac{5\pi}{3} = -\frac{\sqrt{3}}{2}$

$Tan\ \frac{9\pi}{4} = \frac{1}{1} = 1$





$\frac{\pi}{3} = 60°$

Homework

Page 697 #9-54 x3 skip 30

Due Thurs.