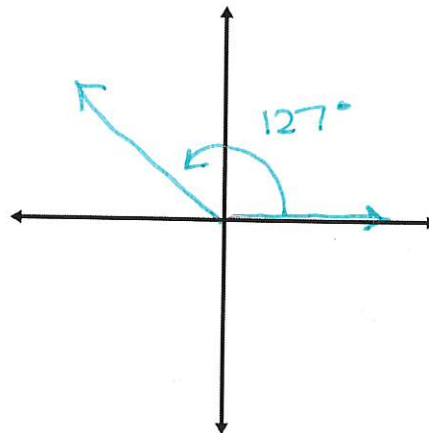
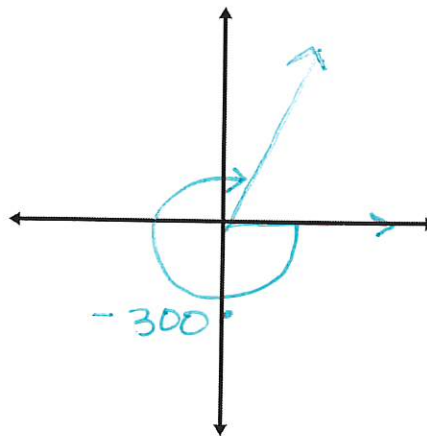


1. Draw an angle of 127° in standard position.



2. Draw an angle of -300° in standard position and determine the exact value of $\sin(-300^\circ)$.



S	A
T	C

3. Find the exact values of each:

a. $\tan(120^\circ)$

$-\tan 60$
 $-\sqrt{3}$

b. $\sin(450^\circ) = \sin 90$

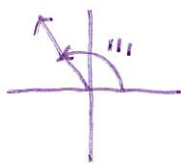
$= 1$

c. $\cos(135^\circ) = -\cos 45$

$= -\frac{\sqrt{2}}{2}$

4. Determine 1 positive co-terminal angle and 1 negative co-terminal angle for each:

a. 111



$111 - 360 = -249^\circ$
 $111 + 360 = 471^\circ$

b. 252



$252 - 360 = -108^\circ$
 $252 + 360 = 612^\circ$

c. 303



$303 - 360 = -57^\circ$
 $303 + 360 = 663^\circ$

MATH PROBLEMS?
Call
1-800-[(10x)(13i)^2]·[sin(xy)/2.362x]

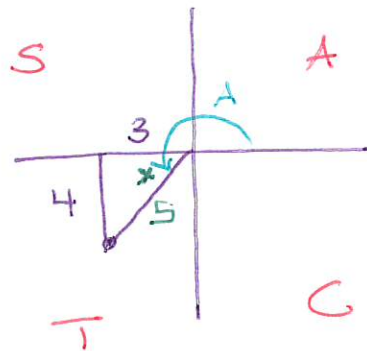
5. If the terminal side of an angle, A , in standard position, passes through $(-3, -4)$, what is the numerical value of:

a. $\sin A$

$$\begin{aligned}\sin A &= -\sin x \\ &= -\frac{4}{5}\end{aligned}$$

b. $\cos A$

$$\begin{aligned}\cos A &= -\cos x \\ &= -\frac{3}{5}\end{aligned}$$



* A is in Q III

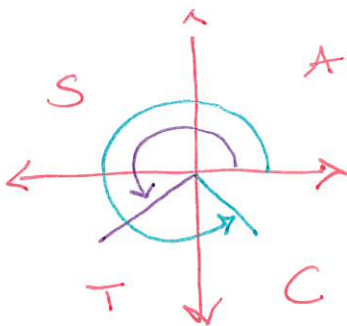
* $180^\circ < A < 270^\circ$

6. Find 2 values for x , on $[0, 360)$, rounded to the nearest tenth, that satisfy the equation

$$\sin x = -0.8234$$

$$\text{reference } \angle = \sin^{-1}(0.8234)$$

$$\text{ref } \angle = 55.4266\dots$$



$$\sin \ominus \text{ in Q III} = 180 + \text{ref } \angle$$

$$\text{Q IV} = 360 - \text{ref } \angle$$

$$235.4266\dots$$

$$304.5733\dots$$

$$\begin{aligned}x &= 235.4 \\ &304.6\end{aligned}$$

