

Math 11

TODAY :

- ① Quiz on yesterday's stuff!
- ② Using trig in the 4 Quadrants
- ③ work!!

QUIZ

A



B



(1) Draw the following angles in SP.

a) 10°



b) 300°



a) 110°



b) 250°



(2) Give an angle coterminal to:

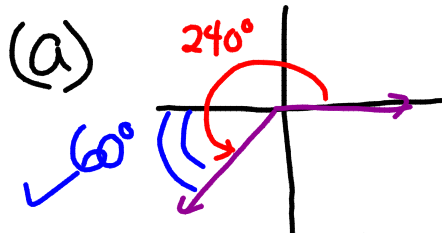
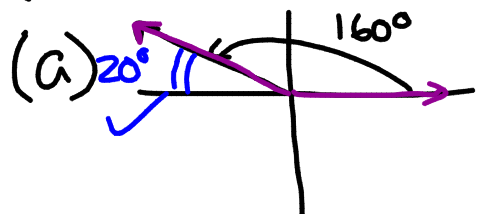
a) 50°

$50 + 360 = \underline{\underline{410^\circ}}$

a) $20^\circ + 360^\circ$

$\underline{\underline{380^\circ}}$

(3) state the reference \angle 's:



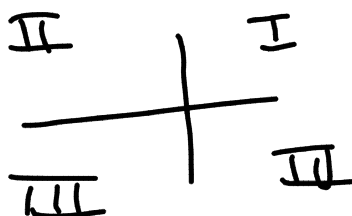
(4) What Quadrant does the following terminate in?

(a) 175°

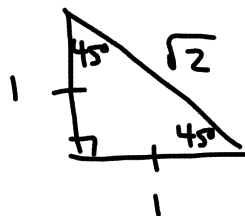
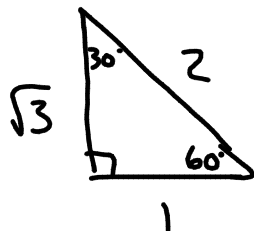
II ✓

(a) 310°

IV ✓

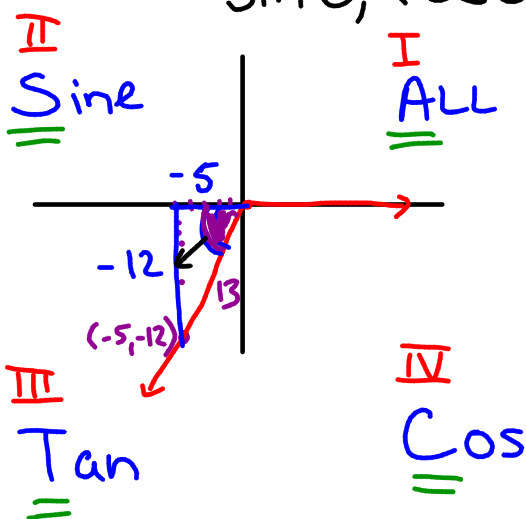


2.2 Trig Ratios of any \angle



	0°	90°	180°	270°	360°
$\sin \theta$	0	1	0	-1	0
$\cos \theta$	1	0	-1	0	1
$\tan \theta$	0	UND.	0	UND	0

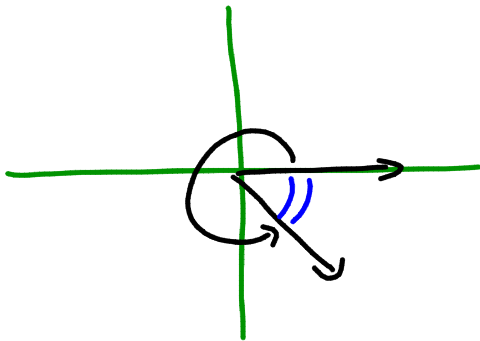
Ex 1 The terminal arm of an angle in S.P. passes through the point $(-5, -12)$. What are the EXACT trig ratios for $\sin \theta$, $\cos \theta$, and $\tan \theta$?



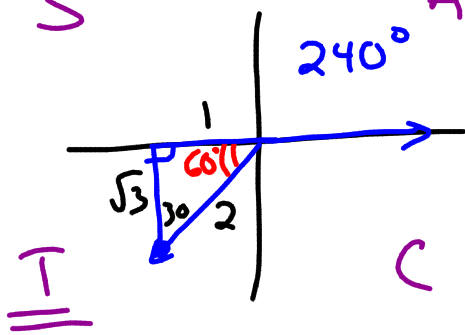
$$\sin \theta = \frac{-12}{13}$$

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

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



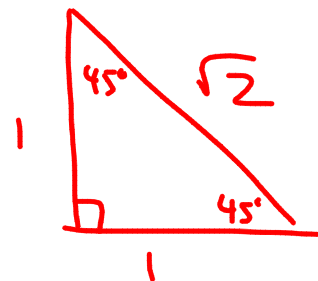
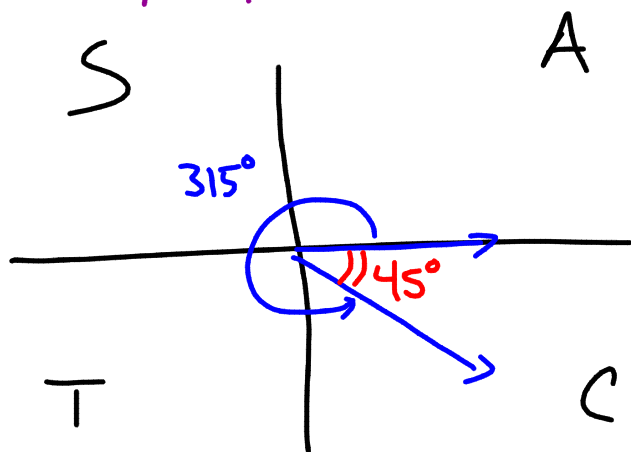
EG 2: Determine the EXACT value for $\sin 240^\circ$ (without using a calculator!!)



$$\sin 60 = \frac{\sqrt{3}}{2}$$

$$\sin 240 = -\frac{\sqrt{3}}{2}$$

Find the EXACT value for $\tan 315^\circ$



$$\tan 45 = 1$$

$$\tan 315 = -1$$

θ is an \angle in SP

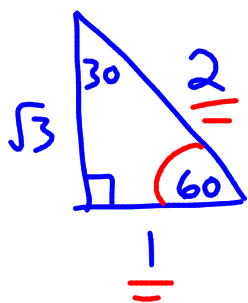
$\sin \theta < 0$ but $\tan \theta > 0$



$$\cos \theta = \frac{-\sqrt{3}}{2}$$

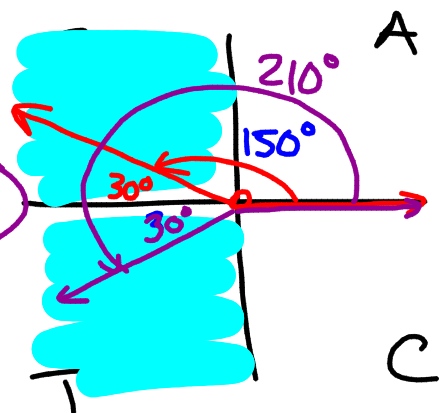
What are all the possible answers for θ between 0° and 360°

$$\cos \theta = \frac{\sqrt{3}}{2}$$



if $\cos \theta = \frac{\sqrt{3}}{2}$

then $\theta = 30^\circ$



$$\theta = 150^\circ \text{ \& } 210^\circ$$

Try 2.2 Up to # 12ish