

Trig Quiz Review

Trig Quiz: Thursday, May 3, 2018

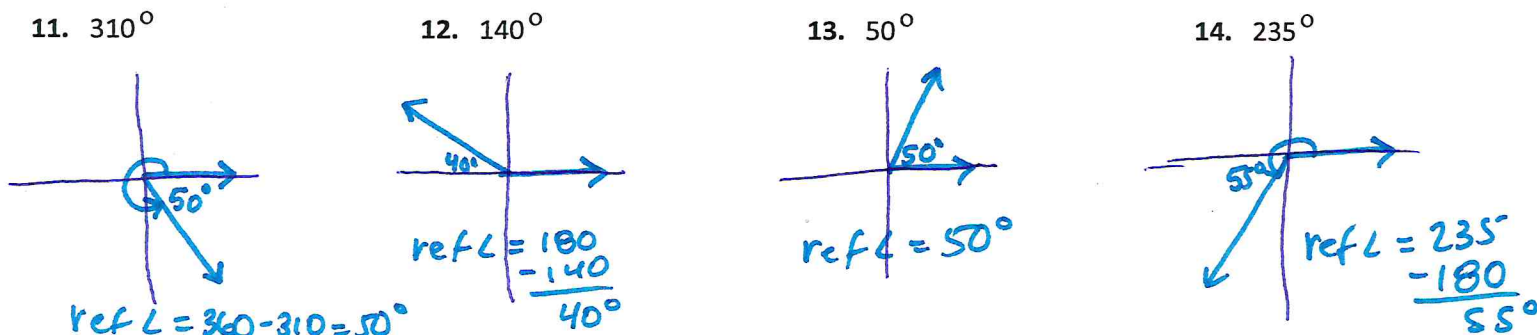
DIRECTIONS: Convert each degree measure to radian measure and each radian measure to degree measure.

1. -300° $-\frac{300}{1} \cdot \frac{\pi}{180} = -\frac{300\pi}{180}$ $\boxed{-\frac{5\pi}{3}} \quad (\div 60)$	2. 150° $\frac{150}{1} \cdot \frac{\pi}{180} = \frac{150\pi}{180}$ $\boxed{\frac{5\pi}{6}} \quad (\div 30)$	3. $-\frac{2\pi}{3}$ $-\frac{2\pi}{3} \cdot \frac{180}{\pi} = -\frac{360\pi}{3\pi}$ $\boxed{-120^\circ}$	4. $\frac{10\pi}{3}$ $\frac{10\pi}{3} \cdot \frac{180}{\pi} = \frac{1800\pi}{3\pi} = \boxed{600^\circ}$
--	--	--	---

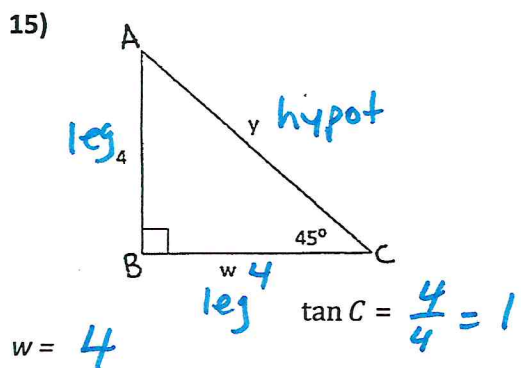
DIRECTIONS: Find the measure of an angle between 0° and 360° coterminal with the angle. *SHOW YOUR $\angle$ ARITHMETIC*

5. -100° $\begin{array}{r} -100 \\ +360 \\ \hline 260^\circ \end{array}$	6. 372° $\begin{array}{r} 372 \\ -360 \\ \hline 12^\circ \end{array}$	7. -145° $\begin{array}{r} -145 \\ +360 \\ \hline 215^\circ \end{array}$
8. -15° $\begin{array}{r} -15 \\ +360 \\ \hline 345^\circ \end{array}$	9. 482° $\begin{array}{r} 482 \\ -360 \\ \hline 122^\circ \end{array}$	10. 421° $\begin{array}{r} 421 \\ -360 \\ \hline 61^\circ \end{array}$

DIRECTIONS: Sketch the following angles in standard position.



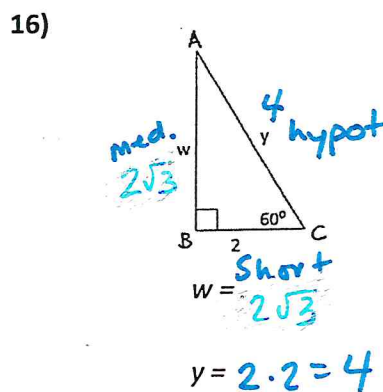
Determine the values of the missing sides of each triangle. Use these values to state each trig ratio. Reduce if necessary.



$y = 4\sqrt{2}$

$\sin A = \frac{4}{4\sqrt{2}} = \frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{2}$

$\cos C = \frac{4}{4\sqrt{2}} = \frac{1}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{\sqrt{2}}{2}$



$\tan C = \frac{\sqrt{3}}{2} = \sqrt{3}$

$\sin A = \frac{2}{4} = \frac{1}{2}$

$\sin C = \frac{2\sqrt{3}}{4} = \frac{\sqrt{3}}{2}$