

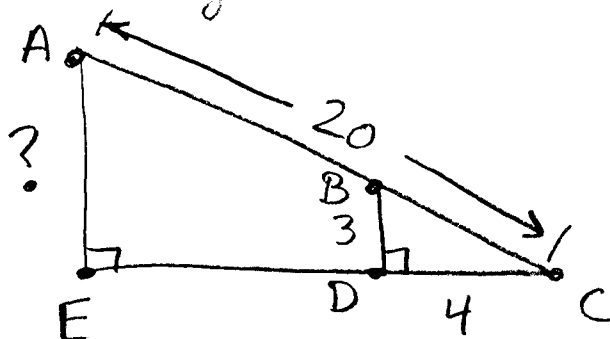
BE - Geometry 11

Tuesday 11-22-11

ACT
PRACTICE

① $f(x) = -8x^2$. Find $f(-3)$

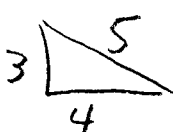
- ② In Right $\triangle ACE$, $\overline{BD}$ is $\parallel$ to $\overline{AE}$,
 $\overline{BD}$ is $\perp$ to $\overline{EC}$ at D . $\overline{AC} = 20$ ft.
 $BD = 3$ ft. $\overline{CD} = 4$ ft. What is
the length of $\overline{AE}$ in ft?



Ans ① $f(x) = -8x^2$

$$f(-3) = -8(-3)^2$$

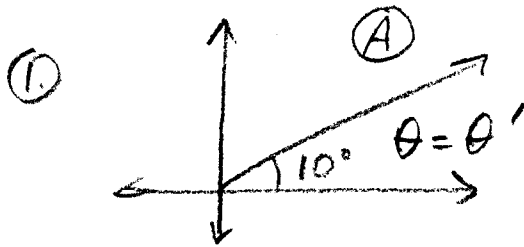
$$= -8(9) = \boxed{-72}$$

②  $\therefore \frac{3}{x} = \frac{5}{20}$

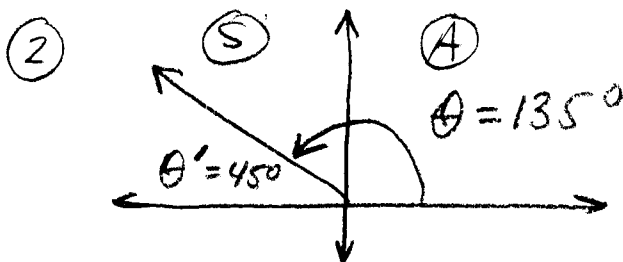
$$5x = 60$$

$$\boxed{x = 12 \text{ ft}}$$

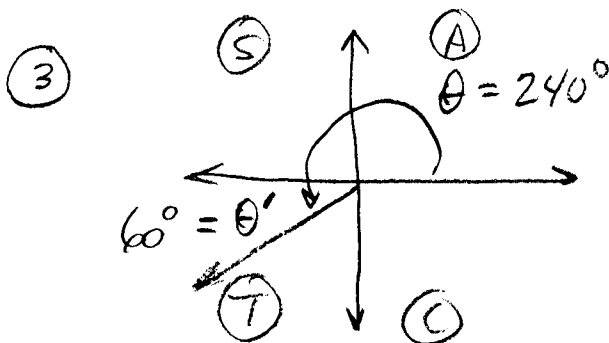
Homework Review - Sin, Cos, Tan for $10^\circ, 135^\circ, 240^\circ, 330^\circ$



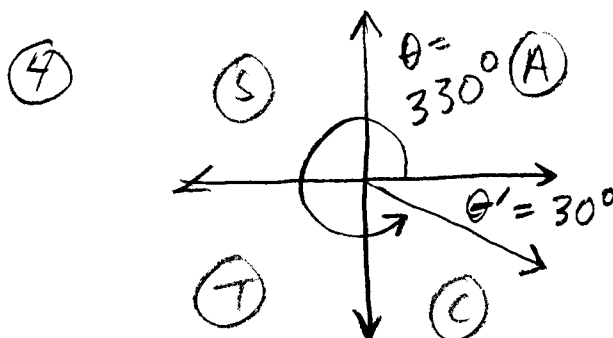
$$\begin{aligned}\sin 10^\circ &= .1736 \\ \cos 10^\circ &= .9848 \\ \tan 10^\circ &= .1763\end{aligned}$$



$$\begin{aligned}\sin 135^\circ &= +\sin 45^\circ = .7071 \\ \cos 135^\circ &= -\sin 45^\circ = -.7071 \\ \tan 135^\circ &= -\tan 45^\circ = -1\end{aligned}$$



$$\begin{aligned}\sin 240^\circ &= -\sin 60^\circ = -.8660 \\ \cos 240^\circ &= -\cos 60^\circ = -.5000 \\ \tan 240^\circ &= +\tan 60^\circ = 1.7321\end{aligned}$$



$$\begin{aligned}\sin 330^\circ &= -\sin 30^\circ = -.5000 \\ \cos 330^\circ &= +\cos 30^\circ = .8660 \\ \tan 330^\circ &= -\tan 30^\circ = -.5774\end{aligned}$$