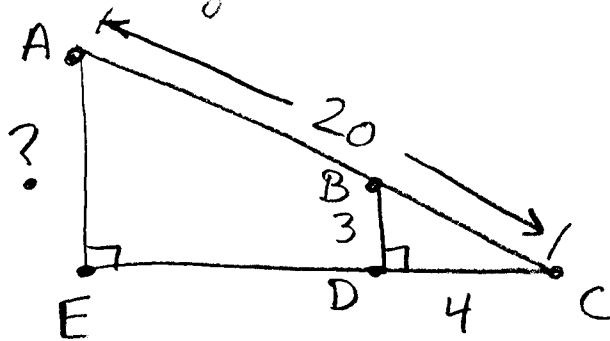


# BE - Geometry II Wednesday 11-17-10

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

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

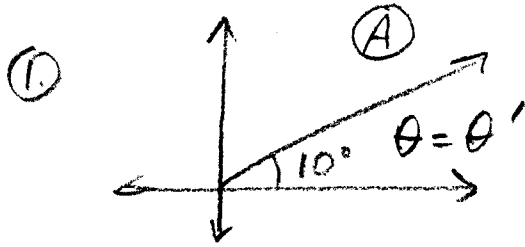
$$= -8(9) = \boxed{-72}$$

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

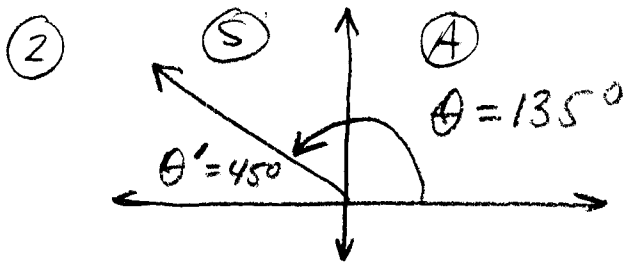
$$5x = 60$$

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

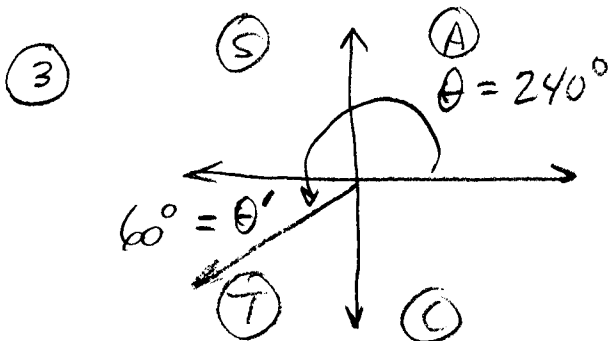
# Homework Review - Sin, Cos, Tan for $10^\circ, 135^\circ, 240^\circ, 330^\circ$



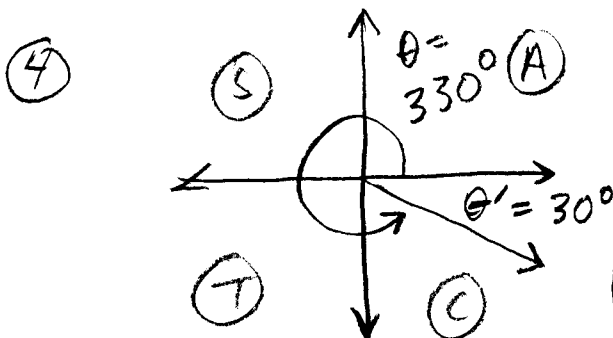
$$\begin{aligned} \sin 10^\circ &= .1736 \\ \cos 10^\circ &= .9848 \\ \tan 10^\circ &= .1763 \end{aligned}$$



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



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



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