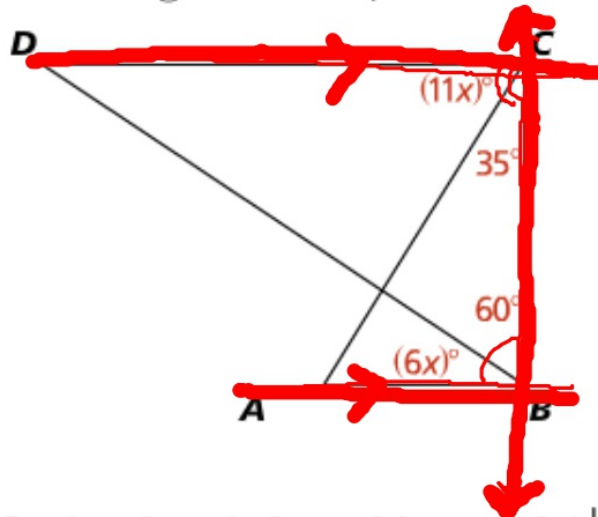


3.4 Review - Warm - up

1. In the figure below, what value of x results in $\overline{AB} \parallel \overline{CD}$?



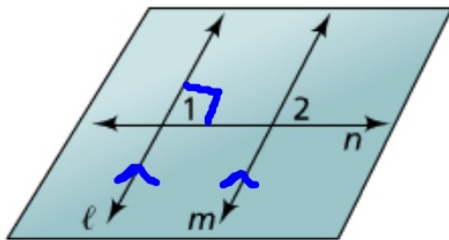
$$\boxed{11x} + 35 + \boxed{6x} + 60 = 180$$

$$17x + 95 = 180$$

$$\begin{array}{r} 17x = 85 \\ \hline 17 \quad 17 \end{array}$$

$$\boxed{x = 5}$$

2. In the plane below, if $\ell \perp n$ and $\ell \parallel m$, prove that $m \perp n$ (Theorem 3-9).



$\angle 1 + \angle 2$ are corresponding \angle 's, then
 $m\angle 1 \cong m\angle 2$. And $m\angle 1 = 90$, so $m\angle 2 = 90^\circ$
 Therefore $m \perp n$.

~~3.~~ A fly and an ant are sitting in the middle of a floor. If the ant travels along a straight path of its choice, will the fly be able to move along a parallel path? Explain.