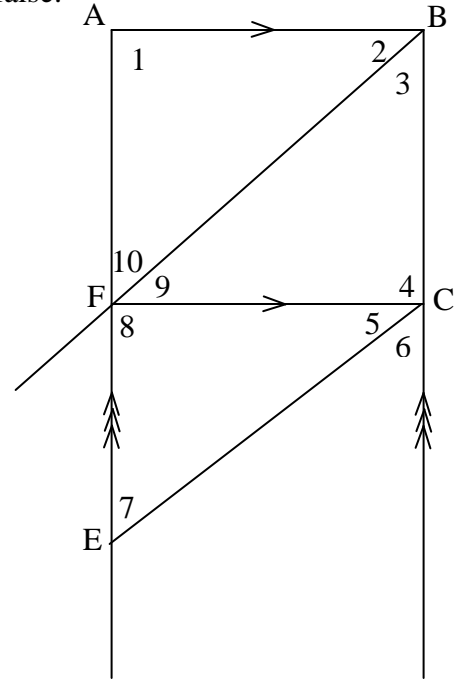


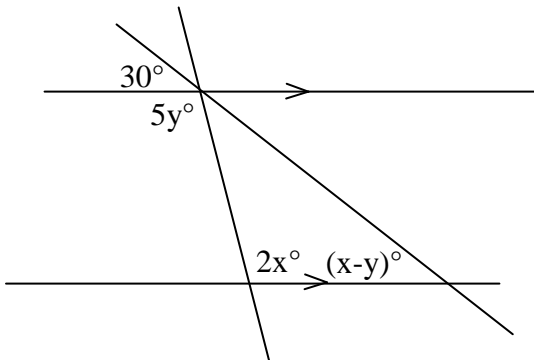
I. Use the picture to the right to determine if each statement is true or false.

1. $\angle 2 \cong \angle 9$
2. $m\angle 2 = m\angle 5$
3. $\angle 6 \cong \angle 7$
4. $\angle 5 \cong \angle 9$
5. $m\angle 1 = m\angle 4$
6. $m\angle 8 + m\angle 5 + m\angle 6 = 180$
7. $m\angle 7 = m\angle 10$

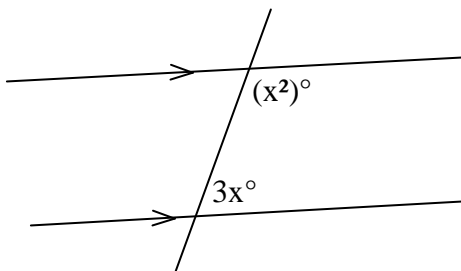


For problems 8-11, find the value of x and/or y.

8. $x = \underline{\hspace{2cm}}$; $y = \underline{\hspace{2cm}}$

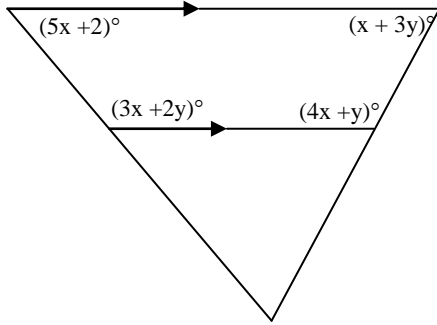


9. $x = \underline{\hspace{2cm}}$

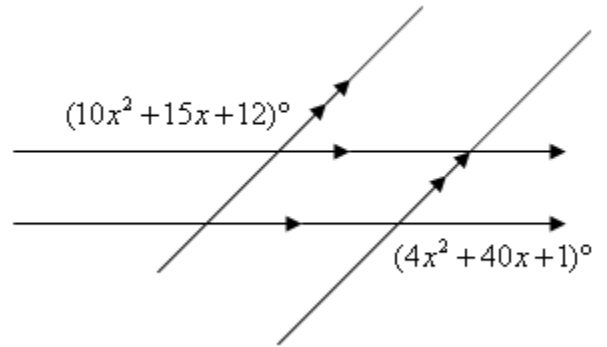


For # 10-12, Find the values of x and/or y . All expressions are representing angles. Be sure to box only the answers that work in the problem situation. Picture not drawn to scale.

10.



11.



12. $a \parallel b$

$$\begin{aligned} \angle 1 &= (x + 3y)^\circ \\ \angle 2 &= (2x + 30)^\circ \\ \angle 3 &= (5y + 20)^\circ \end{aligned}$$

