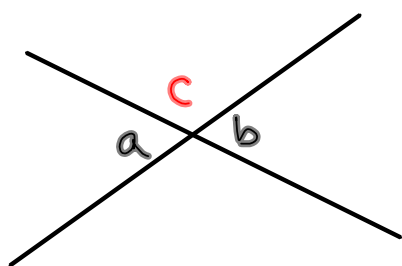


How do we compare angles in lines?

Do Now

Explain why $m\angle a = m\angle b$



$$a + c = 180$$

$$b + c = 180$$

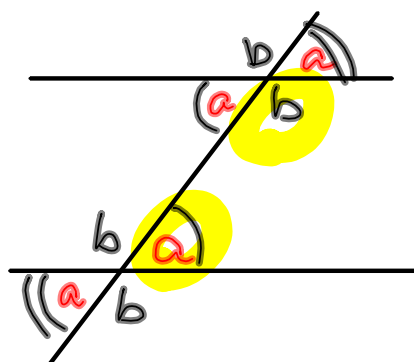
$$\therefore a = b$$

congruent.

* vertical \angle 's are \cong .

Given: when 2 \angle 's form a line, they are supplementary.

In parallel lines,



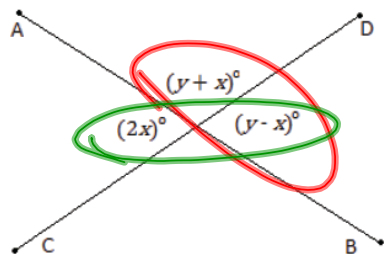
parallel
Given: In \parallel lines,
a pair of corresp. \angle 's
are equal

* alt. int. \angle 's are \cong .

* " ext. " " " "

* int. \angle 's on the same side
are suppl.

7.



$y = \underline{\hspace{2cm}}$ $x = \underline{\hspace{2cm}}$

$$y + x + y - x = 180$$

$$2y = 180$$

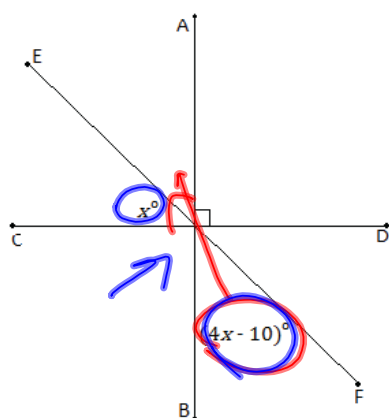
$$y = 90$$

$$2x = y - x$$

$$3x = 90$$

$$x = 30$$

8.



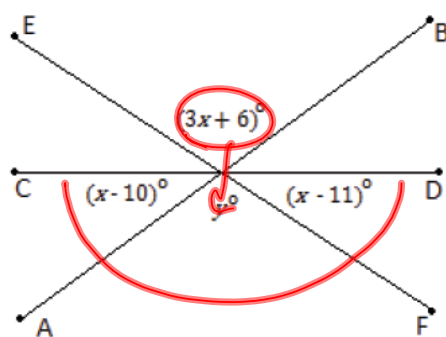
$x = \underline{\hspace{2cm}}$

$$x + 4x - 10 = 90$$

$$5x = 100$$

$$x = 20.$$

9.



$x =$ _____

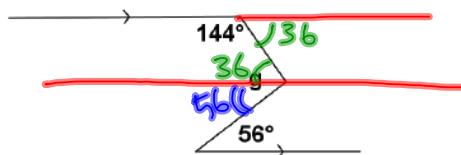
$$x - 10 + 3x + 6 + x - 11 = 180$$

$$5x - 5 = 180$$

$$5x = 185$$

$$x = 37$$

4.



$m\angle g =$ _____

$$36 + 56$$

$$= 92$$