

~~HW. Worksheet/5 0, 10 20, 20 35, 40~~

# McQuiz

⑤

$$y = 2x + b$$

$$3 = 2(4) + b$$

$$3 = 8 + b$$

$$\begin{array}{r} -8 \quad -8 \\ \hline \end{array}$$

$$-5 = b$$

 $(4, 3)$ 

$$y = 2x - 5$$

$$\textcircled{1} (-4, 6) \quad (8, 3)$$

$$\frac{\Delta y}{\Delta x} = \frac{6-3}{-4-8} = \frac{3}{-12} = -\frac{1}{4}$$

$$y = -\frac{1}{4}x + b$$

$$3 = -\frac{1}{4}(8) + b$$

$$3 = -2 + b$$

$$\begin{array}{r} +2 \\ \hline 5 = b \end{array}$$

$$y = -\frac{1}{4}x + 5$$

$$\textcircled{2} \quad \begin{array}{r} 5x + 2y = 22 \\ - (5x - 4y = 4) \\ \hline \end{array} \quad 2 + (+4)$$

$$\frac{6y}{6} = \frac{18}{6}$$

$$5x - 4(3) = 4$$

$$5x - 12 = 4$$

$$\frac{+12 \quad +12}{5x = 16}$$

$$\frac{5x}{5} = \frac{16}{5} \quad x = \frac{16}{5}$$

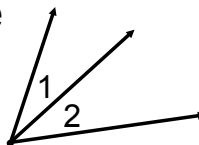
$$y = \textcircled{3}$$

$$\begin{array}{l} x = \frac{16}{5} \\ y = 3 \end{array}$$

Geometry

Adjacent angles-

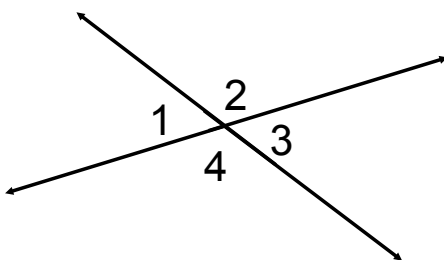
common vertex, common side



Vertical angles-

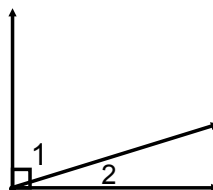
angles formed by two intersecting lines that are opposite one another

- vertical angles are congruent
- angles 1 and 3 are vertical angles
- angles 2 and 4 are vertical angles



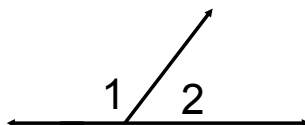
Complementary angles-

sum is 90 degrees



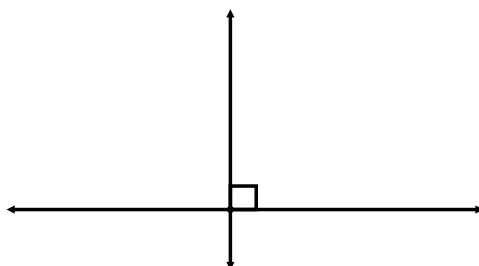
Supplementary angles-

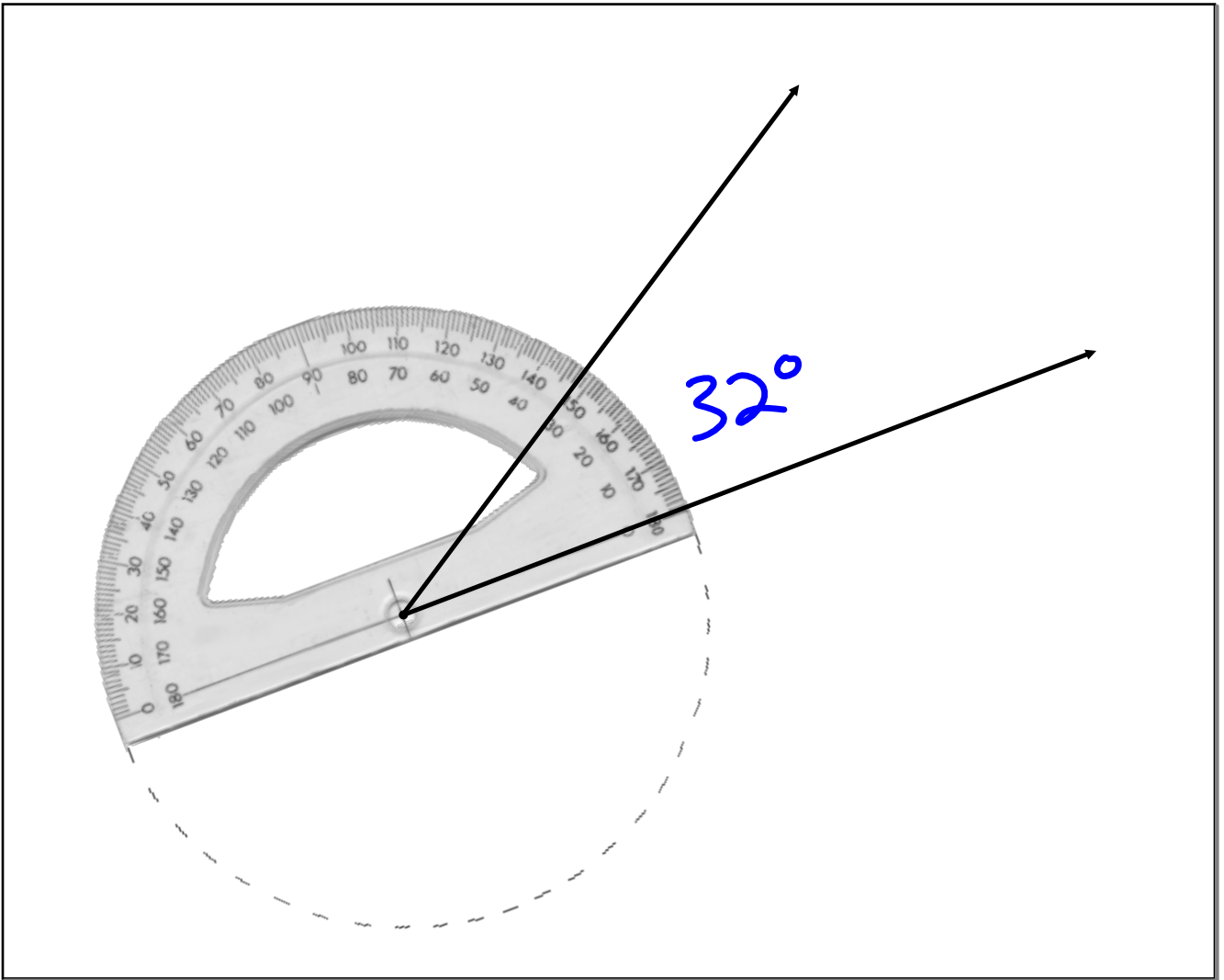
sum is 180 degrees



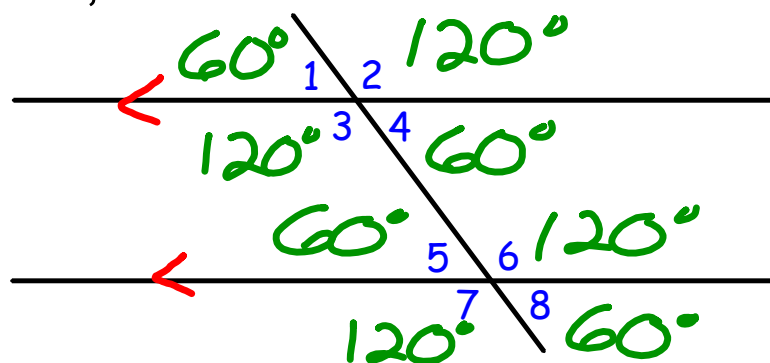
Perpendicular lines-

two lines that intersect to form a right angle





Use the lines on your paper to draw two parallel lines. Then, draw a line that intersects them.

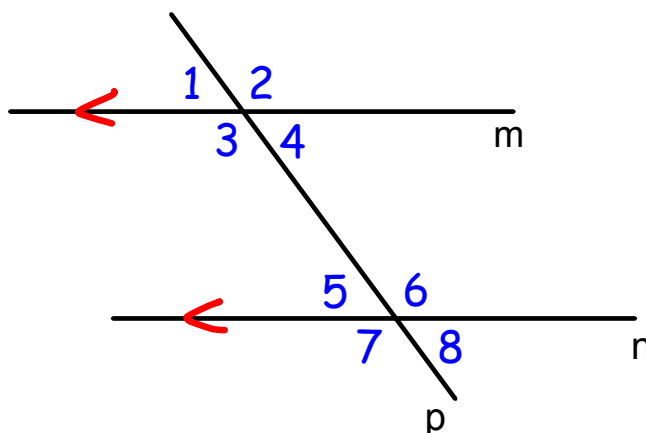


Find the measures of the numbered angles and record them.

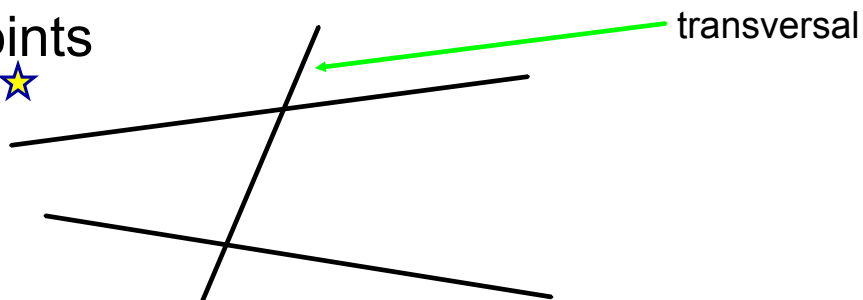
What do you notice about the angles?

$\angle 1, 4, 5, \text{ and } 8$  are  $\cong$   
 $\angle 2, 3, 6, \text{ and } 7$  are  $\cong$





**transversal** - a line that intersects two other lines at different points



**corresponding angles** - angles that lie on the same side of the transversal and in corresponding positions

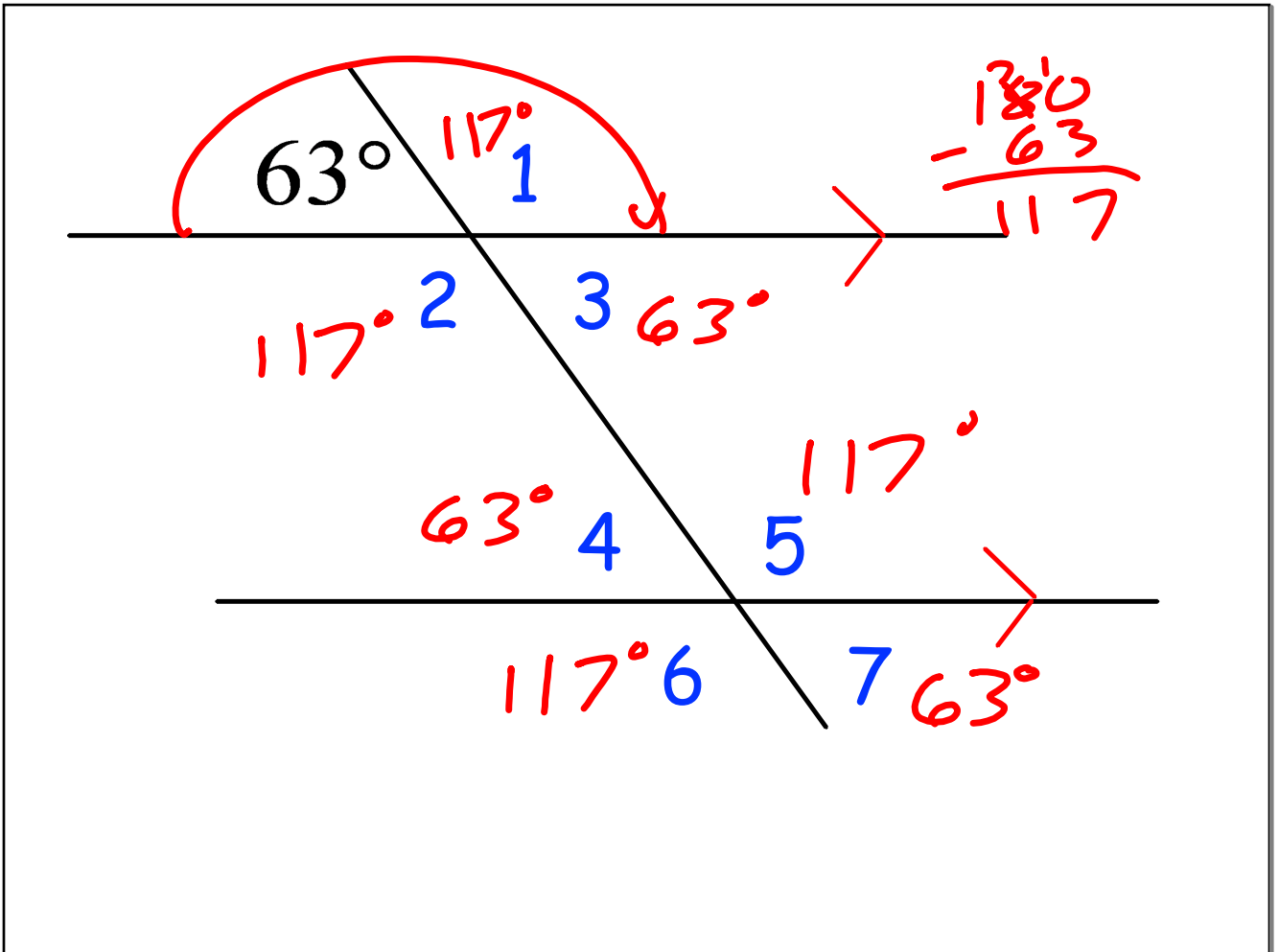
ex: 1 and 5, 3 and 7, 2 and 6, 4 and 8

**alternate interior angles** - angles that lie within a pair of lines and on opposite sides of the transversal

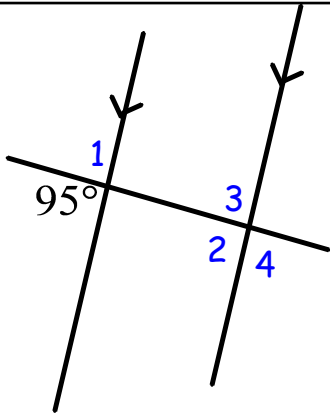
ex: 3 and 6, 4 and 5

**alternate exterior angles** - angles that lie outside a pair of lines and on opposite sides of the transversal

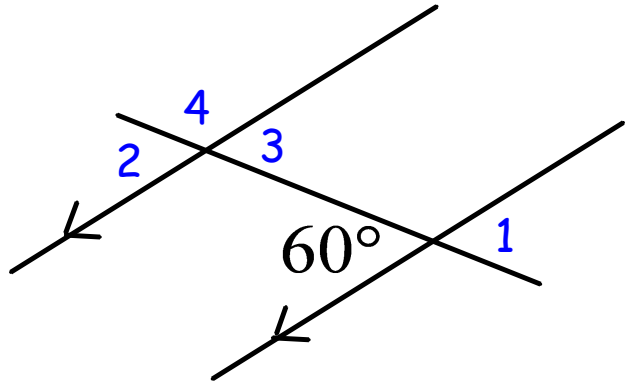
ex: 1 and 8, 2 and 7



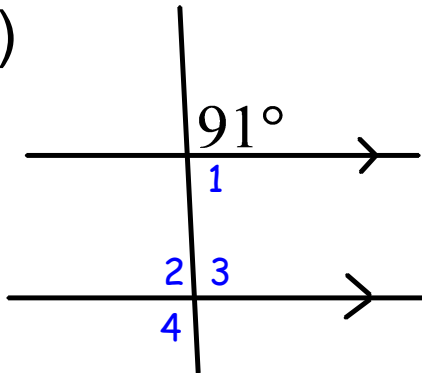
1)



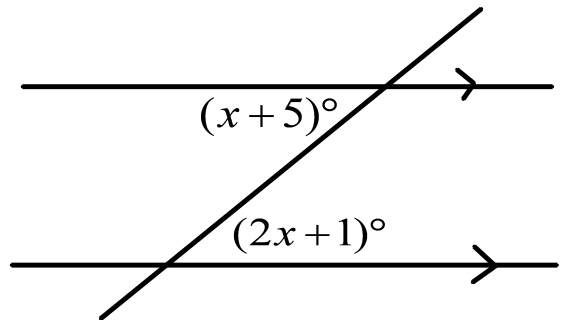
2)



3)



4) Solve for x.



1)

$$\begin{array}{r} 180 \\ - 95 \\ \hline 85 \end{array}$$

