

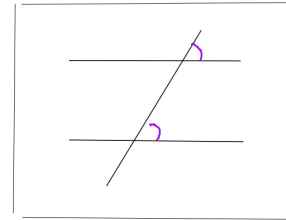
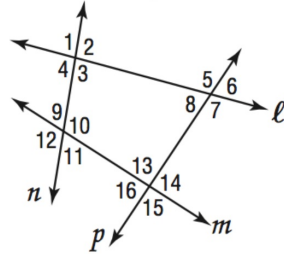
Geometry: Bell Work

Classify the relationship between each pair of angles as *alternate interior*, *alternate exterior*, *corresponding*, or *consecutive interior* angles.

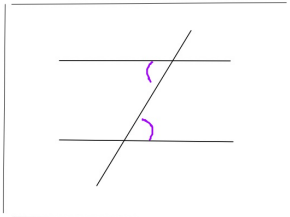
1)  $\angle 2$  and  $\angle 10$     2)  $\angle 9$  and  $\angle 13$

3)  $\angle 3$  and  $\angle 10$     4)  $\angle 7$  and  $\angle 13$

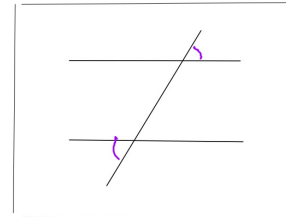
5)  $\angle 6$  and  $\angle 16$     6)  $\angle 8$  and  $\angle 14$



corresponding angles (congruent)	$\angle 2 \cong \angle 6$ $\angle 1 \cong \angle 5$ $\angle 3 \cong \angle 7$ $\angle 4 \cong \angle 8$
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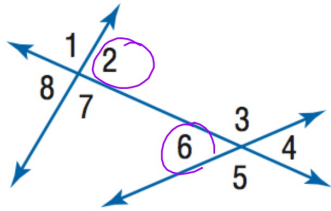


alternate interior angles (congruent)	$\angle 3 \cong \angle 6$ $\angle 4 \cong \angle 5$
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alternate exterior angles (congruent)	$\angle 1 \cong \angle 8$ $\angle 2 \cong \angle 7$
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Refer to the figure below. Classify the relationship between each pair of angles as *alternate interior*, *alternate exterior*, *corresponding*, or *consecutive interior* angles.



$\angle 1$  and  $\angle 5$   
alternate exterior

$\angle 6$  and  $\angle 7$   
consecutive interior

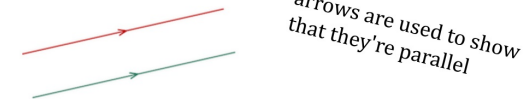
$\angle 2$  and  $\angle 4$   
corresponding

$\angle 2$  and  $\angle 6$   
alternate interior

### 3.1 Parallel Lines and Transversals

Relationships between lines and planes:

parallel lines: are coplanar, do not intersect

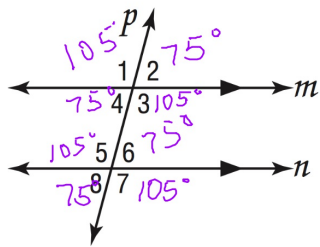


skew lines: are not coplanar, do not intersect



parallel planes: do not intersect

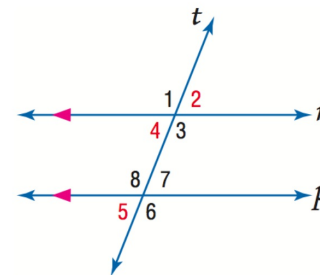
In the figure,  $m\angle 2 = 75$ . Find the measures of the remaining angles.



$$\begin{array}{r} 180 \\ - 75 \\ \hline 105 \end{array}$$

In the figure,  $m\angle 5 = 72$ . Find the measure of each angle.

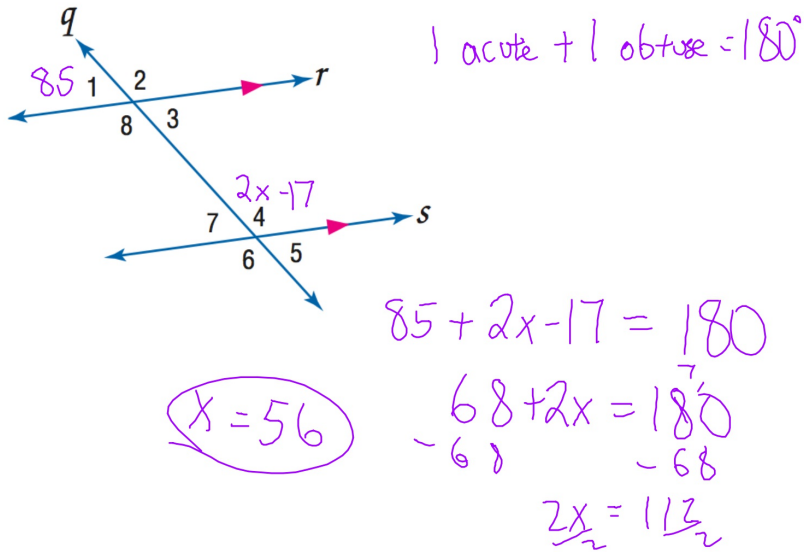
How do you know?



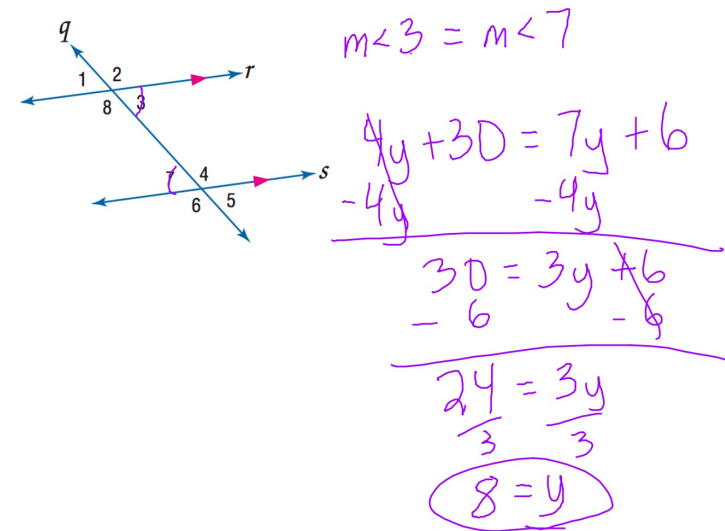
a.  $\angle 4 = 72^\circ$  corresponding

b.  $\angle 2 = 108^\circ$  alternate exterior angles

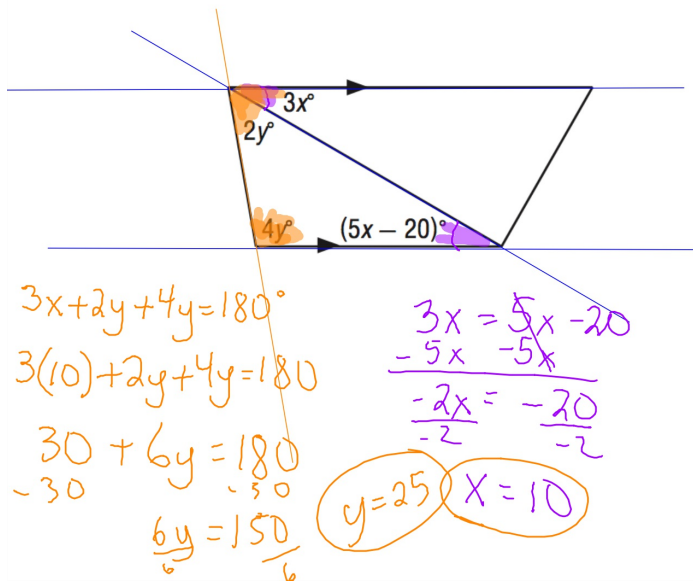
If  $m\angle 4 = 2x - 17$  and  $m\angle 1 = 85$ , find  $x$ .



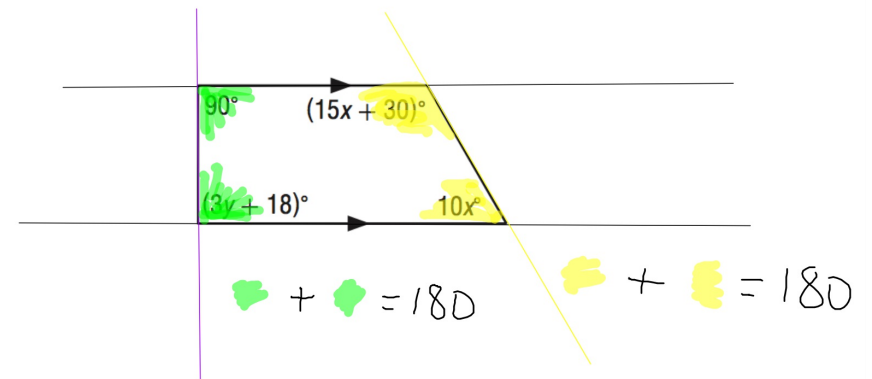
Find  $y$  if  $m\angle 3 = 4y + 30$  and  $m\angle 7 = 7y + 6$ .



Find the value of the variable(s) in each figure.



Find the value of the variable(s) in each figure.



Assignment:

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	Name	Per	Date
3.2 pg 181 #1-10			
1)			