Bell Ringer

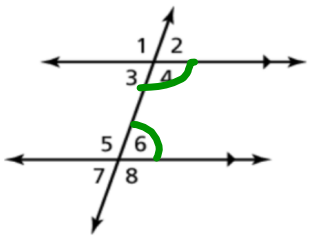
Friday 1/3

Complete the sentence.

1. **If two parallel lines are cut by a transversal, then the pairs of consecutive interior angles are** supp. **.**
2. **If two parallel lines are cut by a transversal, then the pairs of alternate interior angles are** cong. **.**

Using the properties of parallel lines, find the angle measure.

3. $m\angle 2 = 74°$; Find $m\angle 3$. 74
4. $m\angle 1 = 114°$; Find $m\angle 8$. 114
5. $m\angle 4 = 105°$; Find $m\angle 6$. 75
6. $m\angle 1 = 121°$; Find $m\angle 7$. 59
7. $m\angle 8 = 116°$; Find $m\angle 2$. 64
8. $m\angle 2 = 74°$; Find $m\angle 1$. 106



Week #5 Packet due!

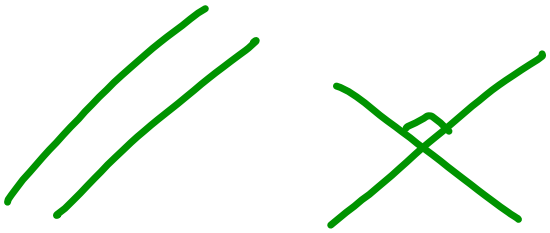
Ch 10 Test MONDAY

Week #6 Packet due Tuesday

Review...

Slopes of parallel lines are equal

Slopes of perpendicular lines are opposite reciprocals



Classify as corresponding, alternate interior, alternate exterior or consecutive interior angles

∠1 and ∠12

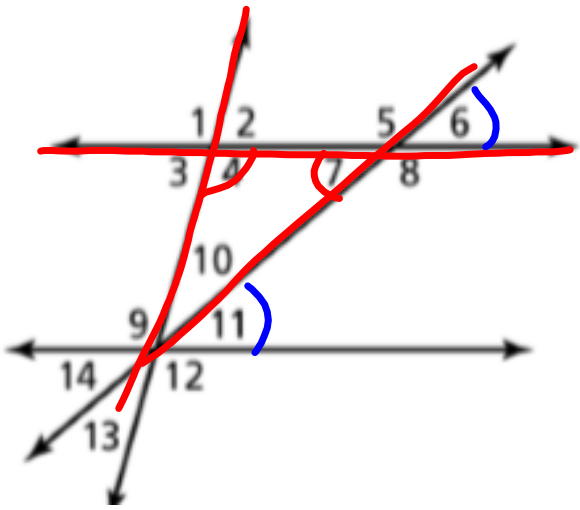
alt ext

∠6 and ∠11

corresp

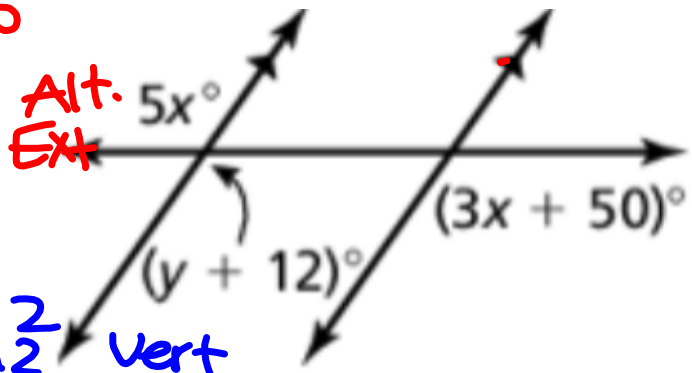
∠4 and ∠7

consec. int



Find the values of x and y. State which theorem(s) you used.

$5x = 3x + 50$
$-3x \quad -3x$
$2x = 50$
$x = 25$

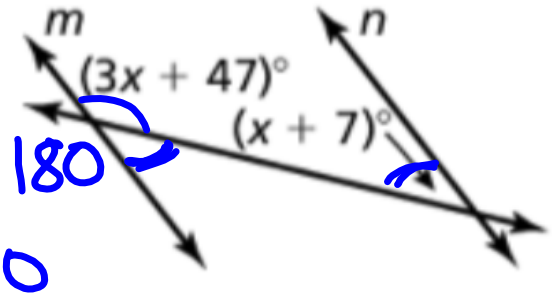


Alt. Ext

$125 = y + 12$
$-12 \quad -12$
$113 = y$

Vert $\angle$s

Find the value of x that makes m || n



$x = 31.5$

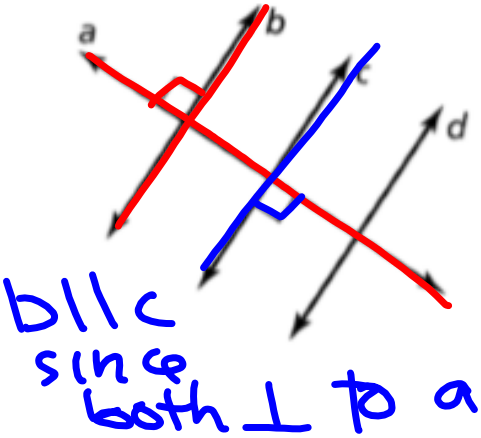
$3x + 47 + x + 7 = 180$

$4x + 54 = 180$

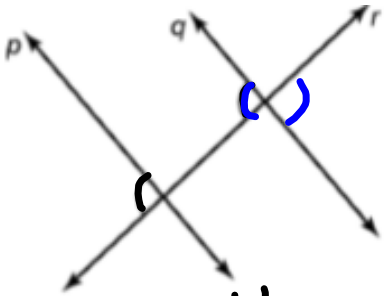
$\frac{4x}{4} = \frac{126}{4} = 31.5$

$x =$

Determine which lines, if any must be parallel. Explain



b || c since both ⊥ to a



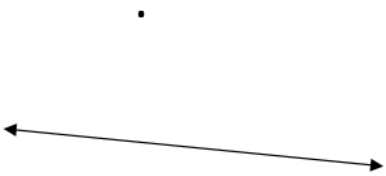
p || q corresp. ∠s are ≅

due Monday
Ch 10 Review pg 534-535 #s 1-16

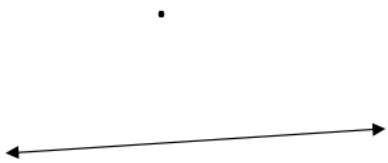
Name _____ Hour _____ Ch 10 Constructions Review Page

Construct a line parallel to the given line through the given point not on the line.

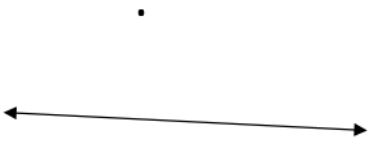
1.



2.



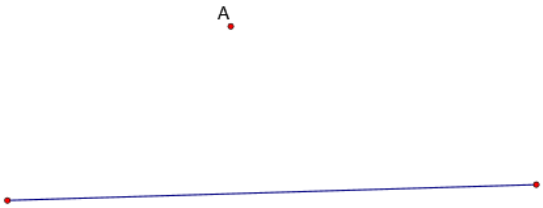
3.



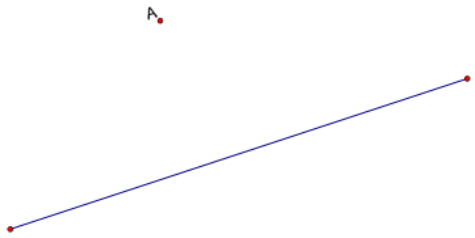
4.

Construct a line perpendicular to the given line through the given point.

5.



6.



7.

8.

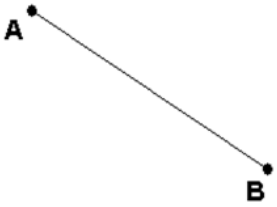
Construct a square ABCD given side AB.

9.

10.

Construct the perpendicular bisector of the given segment.

11.



12.

13.