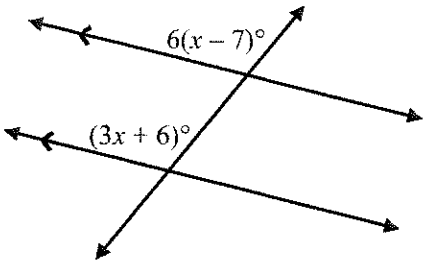
## Lesson 1.2C ~ Corresponding and Same-Side Interior Angles

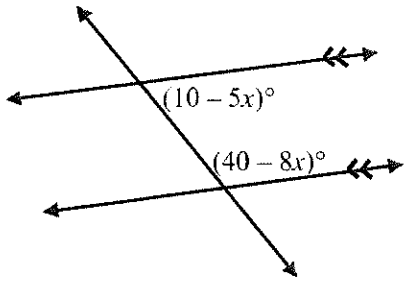
Name_____ Period_____ Date_____

**Name the special angle pair relationship. Solve for *x*. Then, find the measure of the angles.**

**1.**




**2.**

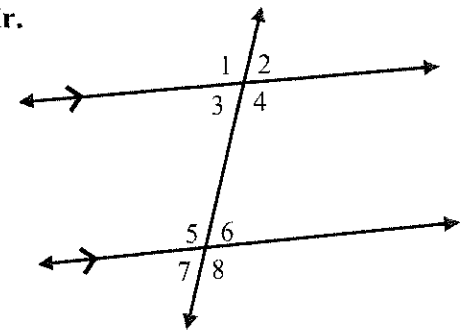



**Sketch a diagram to represent each description.**

**3.** $\overleftrightarrow{AB}$ and $\overleftrightarrow{PQ}$ are parallel. A transversal intersects both lines. One pair of corresponding angles are 75°.

**4.** The same side interior angles are right angles. They are formed by transversal $\overleftrightarrow{XY}$ and lines *p* and *q*.

**Use the diagram at the right to name each special angle pair.**




**5.** ∠1 and ∠5

**6.** ∠1 and ∠8

**7.** ∠4 and ∠8

**8.** ∠7 and ∠6

**9.** ∠3 and ∠4

**10.** ∠6 and ∠3

**11.** ∠6 and ∠4

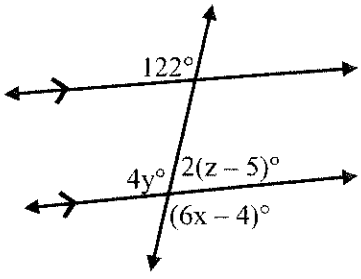
**12.** ∠3 and ∠5

**13.** A pair of corresponding angles are 60° each. Determine the measure of each pair of alternate exterior angles.

**14.** One pair of alternate interior angles is 112°. What are the measures of the same-side interior angles?

**Use each diagram to find the value of each variable.**

**15.**

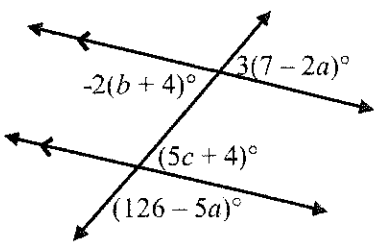



$x =$ _____

$y =$ _____

$z =$ _____

**16.**




$a =$ _____

$b =$ _____

$c =$ _____