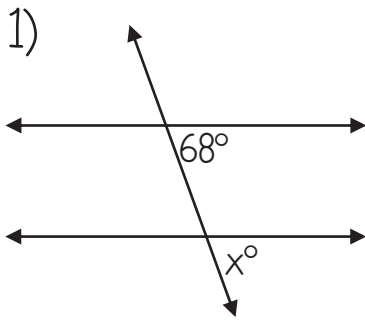
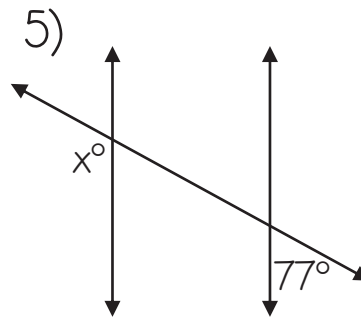


Angle Pairs Created by Parallel Lines Cut by a Transversal

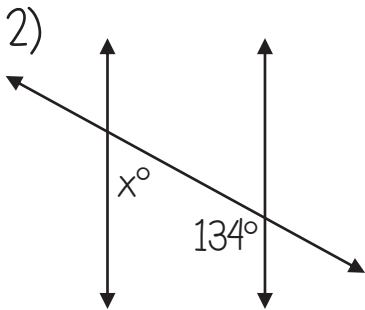
For each set of angles name the angle pair and find the missing measurement



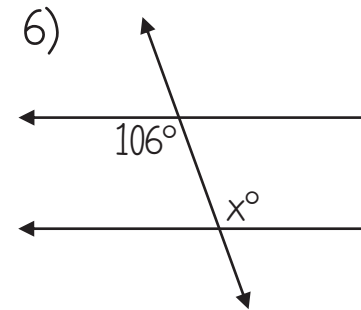
Type of angle pair
_ **Corresponding** _
These angles are
_ **Congruent** _
so... $x = \underline{68^\circ}$



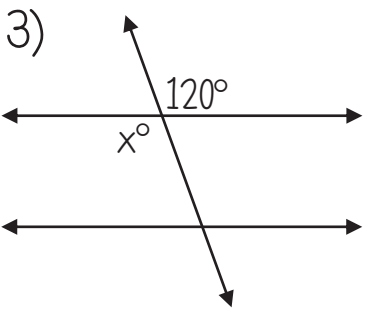
Type of angle pair
_ **Same-Side Exterior** _
These angles are
_ **Supplementary** _
so... $x = \underline{103^\circ}$



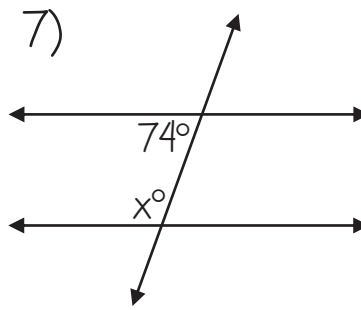
Type of angle pair
_ **Same-Side Interior** _
These angles are
_ **Supplementary** _
so... $x = \underline{46^\circ}$



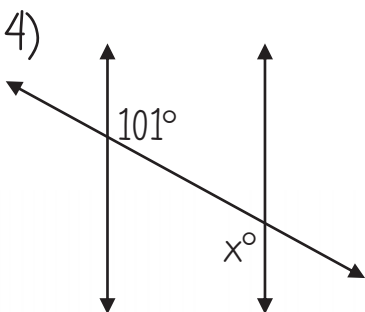
Type of angle pair
_ **Alternate Interior** _
These angles are
_ **Congruent** _
so... $x = \underline{106^\circ}$



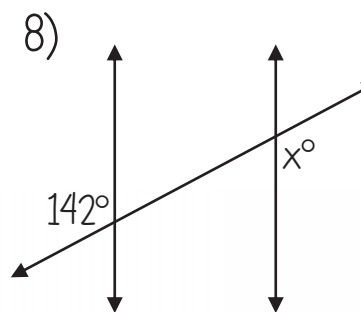
Type of angle pair
_ **Vertical** _
These angles are
_ **Congruent** _
so... $x = \underline{120^\circ}$



Type of angle pair
_ **Same-Side Interior** _
These angles are
_ **Supplementary** _
so... $x = \underline{106^\circ}$



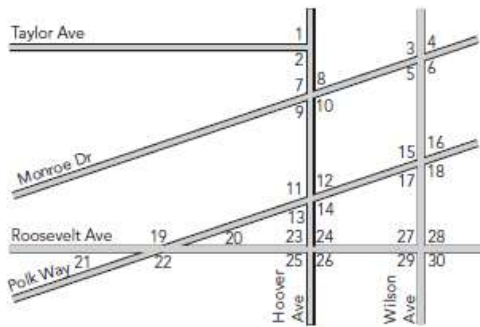
Type of angle pair
_ **Alternate Interior** _
These angles are
_ **Congruent** _
so... $x = \underline{101^\circ}$



Type of angle pair
_ **Alternate Exterior** _
These angles are
_ **Congruent** _
so... $x = \underline{142^\circ}$

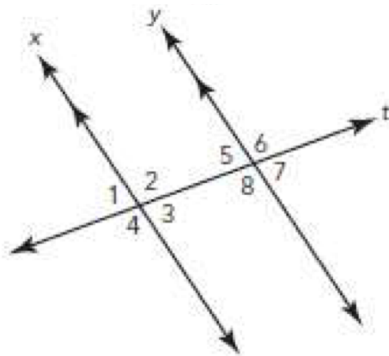
Skills Practice – Line and Angle Relationships

1 Use the map to answer each question. Assume the streets extend beyond the edges of the map.



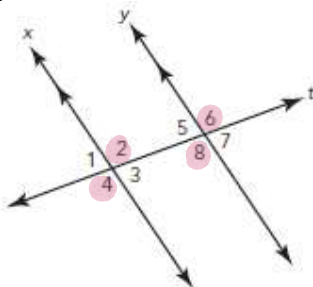
- a. Identify all the angles that are **same-side exterior** to $\angle 11$. $\angle 16$ & $\angle 25$
- b. Identify all the angles that are **alternate interior** to $\angle 11$. $\angle 10$
- c. Identify all the angles that are **corresponding** to $\angle 11$. $\angle 7$ & $\angle 15$ & $\angle 23$
- d. Identify all the angles that are **vertical** to $\angle 11$. $\angle 14$

2 In the diagram, transversal t intersects lines p and q . Classify each pair of angles as vertical, linear, corresponding, same-side exterior, same-side interior, alternate interior, or alternate exterior.



- a. angle 1 and angle 2 supplementary
- b. angle 1 and angle 3 vertical
- c. angle 1 and angle 6 same-side exterior
- d. angle 3 and angle 7 corresponding
- e. angle 2 and angle 8 alternate interior
- f. angle 1 and angle 7 alternate exterior
- g. angle 4 and angle 7 same-side exterior
- h. angle 6 and angle 8 vertical
- i. angle 3 and angle 4 supplementary
- j. angle 2 and angle 6 corresponding
- k. angle 2 and angle 5 same-side interior
- l. angle 3 and angle 5 alternate interior

3 Use the diagram to answer each question.



- a. Identify the angles that are congruent to $\angle 6$. $\angle 2, \angle 4, \angle 8$
- b. Identify the angles that are supplementary to $\angle 3$. $\angle 4, \angle 2$
- c. Identify the angles that are supplementary to $\angle 6$. $\angle 5, \angle 7$
- d. Identify the angles that are congruent to $\angle 3$. $\angle 1, \angle 5, \angle 7$