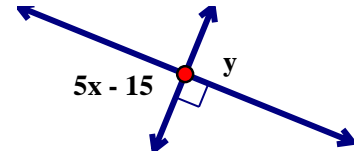
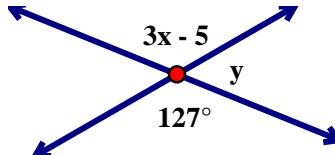
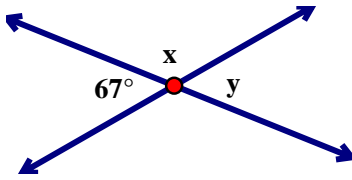
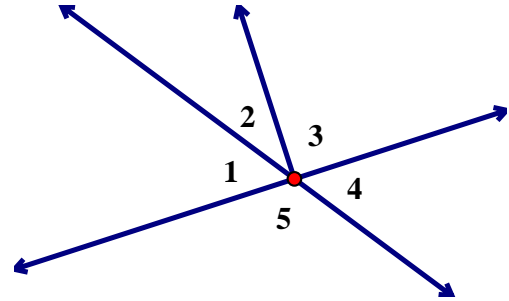


1. Solve the following.

a)  $x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_    b)  $x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_    c)  $x =$  \_\_\_\_\_  $y =$  \_\_\_\_\_



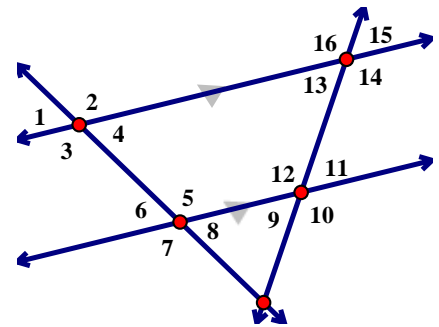
- 2.  $\angle 5$  and  $\angle 3$  are vertical angles. T or F
- 3.  $\angle 1$  and  $\angle 5$  are a linear pair. T or F
- 4.  $\angle 4$  and  $\angle 3$  are adjacent angles. T or F
- 5.  $\angle 4$  and  $\angle 1$  are vertical angles. T or F
- 6.  $\angle 3$  and  $\angle 4$  are a linear pair. T or F



- 7. If  $\angle A$  and  $\angle B$  are supplements and  $m\angle A = 150^\circ$ , what is  $m\angle B$ ? \_\_\_\_\_
- 8. If  $\angle A$  and  $\angle B$  are complements and  $m\angle A = 27^\circ$ , what is  $m\angle B$ ? \_\_\_\_\_
- 9. If  $\angle A$  and  $\angle B$  are vertical angles and  $m\angle A = 36^\circ$ , what is  $m\angle B$ ? \_\_\_\_\_
- 10. If  $\angle A$  and  $\angle B$  are a linear pair and  $m\angle A = 2x + 8$  and  $m\angle B = 3x + 2$ , what is the value of  $x$ ?  $x =$  \_\_\_\_\_
- 11. If  $\angle A$  and  $\angle B$  are vertical angles and  $m\angle A = 7x - 5$  and  $m\angle B = 4x + 10$ , what is the value of  $x$ ?  $x =$  \_\_\_\_\_

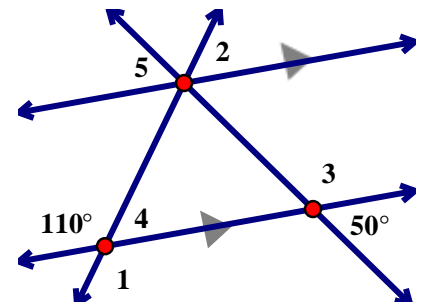
**12. Provide the name of the following relationships.**

- a)  $\angle 1$  &  $\angle 6$  \_\_\_\_\_
- b)  $\angle 2$  &  $\angle 7$  \_\_\_\_\_
- c)  $\angle 16$  &  $\angle 14$  \_\_\_\_\_
- d)  $\angle 14$  &  $\angle 11$  \_\_\_\_\_
- e)  $\angle 1$  &  $\angle 7$  \_\_\_\_\_
- f)  $\angle 6$  &  $\angle 5$  \_\_\_\_\_
- g)  $\angle 15$  &  $\angle 10$  \_\_\_\_\_
- h)  $\angle 1$  &  $\angle 2$  \_\_\_\_\_
- i)  $\angle 13$  &  $\angle 12$  \_\_\_\_\_
- j)  $\angle 16$  &  $\angle 9$  \_\_\_\_\_



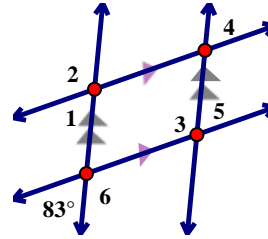
**13. Find the measure of the angle and give a reason for knowing it.**

- |                        | (measure) | (reason) |
|------------------------|-----------|----------|
| a) $m\angle 1 =$ _____ | _____     | _____    |
| b) $m\angle 2 =$ _____ | _____     | _____    |
| c) $m\angle 3 =$ _____ | _____     | _____    |
| d) $m\angle 4 =$ _____ | _____     | _____    |
| e) $m\angle 5 =$ _____ | _____     | _____    |



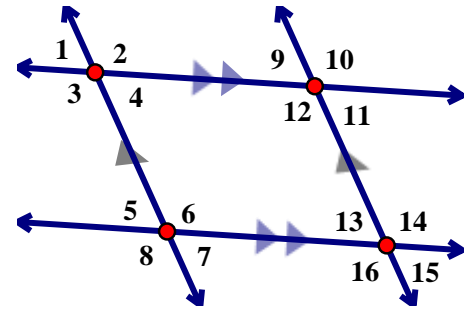
14. Find the measure of the angle.

- a)  $m\angle 1 =$  \_\_\_\_\_      b)  $m\angle 2 =$  \_\_\_\_\_  
 c)  $m\angle 3 =$  \_\_\_\_\_      d)  $m\angle 4 =$  \_\_\_\_\_  
 e)  $m\angle 5 =$  \_\_\_\_\_      f)  $m\angle 6 =$  \_\_\_\_\_



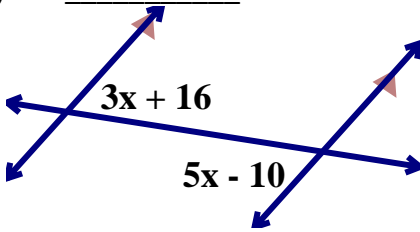
15. Circle (T) rue or (F)alse.

- a)  $\angle 1 \cong \angle 4$     T or F                      b)  $\angle 6 \cong \angle 16$     T or F  
 c)  $\angle 3 \cong \angle 5$     T or F                      d)  $\angle 4 \cong \angle 5$     T or F  
 e)  $\angle 2 \cong \angle 10$     T or F                      f)  $\angle 9 \cong \angle 15$     T or F  
 g)  $\angle 12 \cong \angle 14$     T or F                      h)  $\angle 9 \cong \angle 11$     T or F  
 i)  $m\angle 11 + m\angle 15 = 180^\circ$     T or F  
 j)  $m\angle 1 + m\angle 8 = 180^\circ$     T or F

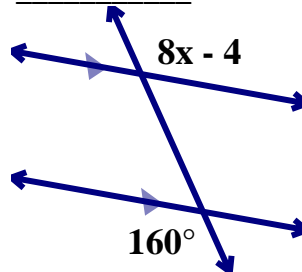


16. Solve for the unknown values.

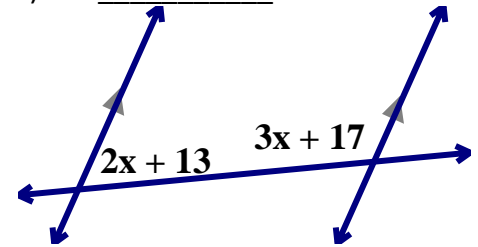
a)  $x =$  \_\_\_\_\_



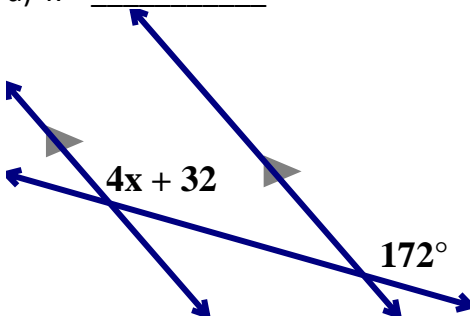
b)  $x =$  \_\_\_\_\_



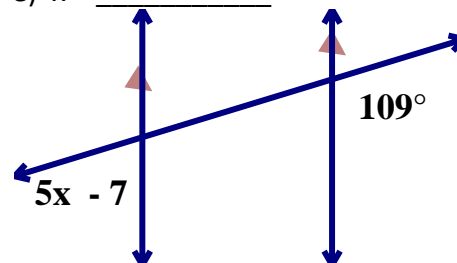
c)  $x =$  \_\_\_\_\_



d)  $x =$  \_\_\_\_\_



e)  $x =$  \_\_\_\_\_



f)  $x =$  \_\_\_\_\_

