

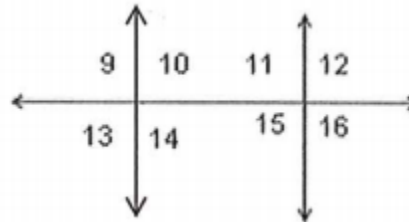
Unit 4 – Lesson 1 | Assignment

Date _____ Period _____

Directions: Classify each pair of angles as one of the following:

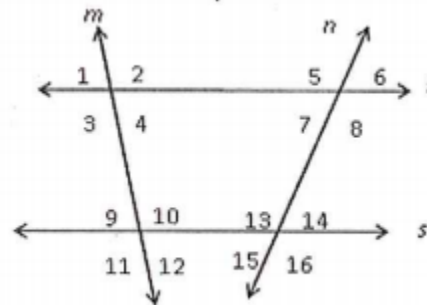
- (a) Alternate interior angles
- (b) Corresponding angles
- (c) Alternate Interior Angles
- (d) Vertical Angles
- (e) Linear Pairs
- (f) None

1. ____ $\angle 9$ and $\angle 16$
2. ____ $\angle 15$ and $\angle 11$
3. ____ $\angle 10$ and $\angle 15$
4. ____ $\angle 12$ and $\angle 15$
5. ____ $\angle 9$ and $\angle 11$
6. ____ $\angle 9$ and $\angle 15$
7. ____ $\angle 13$ and $\angle 14$
8. ____ $\angle 14$ and $\angle 11$



Directions: Given that $t \parallel s$, $m\angle 2 = 97^\circ$, and $m\angle 6 = 83^\circ$, find the angle measures below.

9. $m\angle 3 =$ ____
10. $m\angle 10 =$ ____
11. $m\angle 4 =$ ____
12. $m\angle 5 =$ ____
13. $m\angle 7 =$ ____
14. $m\angle 16 =$ ____

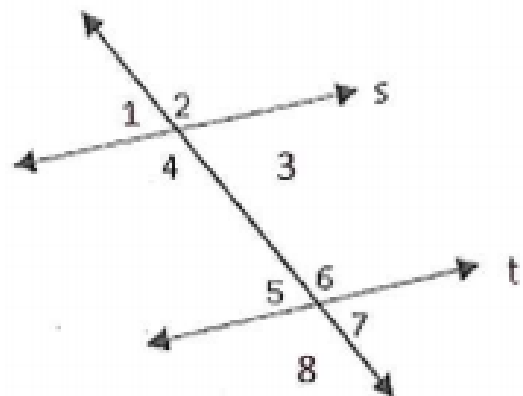


Directions: Find the value of x given that $s \parallel t$.

15. $m\angle 4 = 77^\circ, m\angle 8 = (4x + 57)^\circ$

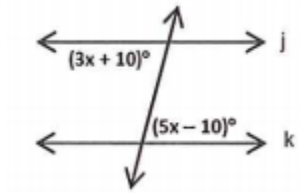
16. $m\angle 3 = (5x + 13)^\circ, m\angle 5 = 53^\circ$

17. $m\angle 1 = (6x - 5)^\circ, m\angle 7 = 115^\circ$

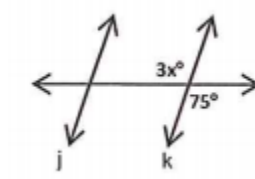


Directions: Find the value of x given that $j \parallel k$.

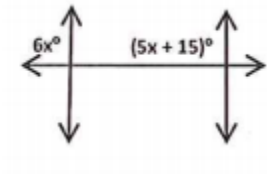
18.



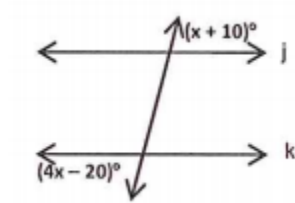
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20.

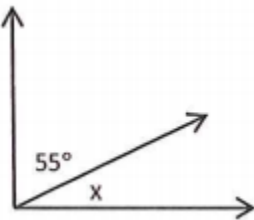


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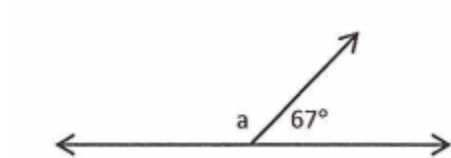


Directions: Determine the missing angle measures.

22.



23.

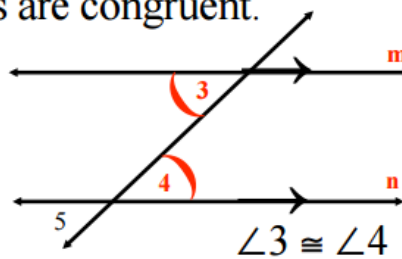


Directions: Prove the alternate interior angles theorem shown below.

24. If two parallel lines are cut by a transversal then the pairs of alternate interior angles are congruent.

Given: $m \parallel n$

Prove: $\angle 3 \cong \angle 4$



$\angle 3 \cong \angle 4$

Statements	Reasons