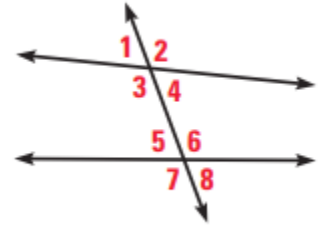


Lesson 2.07 Worksheet

Name: _____

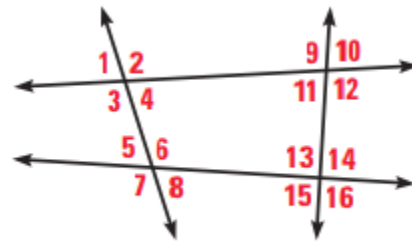
In 1-4, use the diagram to name all pairs of the given angle type.

- 1.) Corresponding Angles.
- 2.) Alternate Interior Angles.
- 3.) Alternate Exterior Angles.
- 4.) Same-Side Interior Angles.



Classify the listed angle pair as a linear pair, or corresponding, alternate interior, alternate exterior, same-side interior, same-side exterior, vertical angles, or not an angle pair.

- 5.) $\angle 5$ and $\angle 1$
- 6.) $\angle 11$ and $\angle 4$
- 7.) $\angle 6$ and $\angle 16$
- 8.) $\angle 4$ and $\angle 13$
- 9.) $\angle 2$ and $\angle 11$
- 10.) $\angle 16$ and $\angle 12$
- 11.) $\angle 1$ and $\angle 10$
- 12.) $\angle 15$ and $\angle 13$

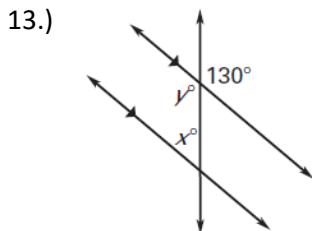


For each diagram below find the value of each variable. You must state all postulates and theorems used. Your options are listed below. **REMEMBER: THE LAST 4 CAN ONLY BE USED WITH PARALLEL LINES!!!!**

- Vertical Angles Congruence Theorem
- Alternate Interior Angles Theorem
- Consecutive Interior Angles Theorem

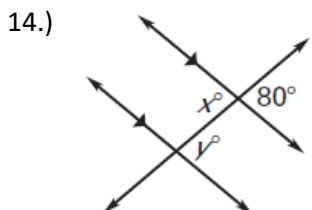
- Linear Pair Postulate
- Alternate Exterior Angles Theorem
- Corresponding Angles Postulate

Postulate/Theorem Used



$x =$ _____

$y =$ _____

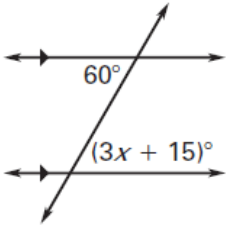


$x =$ _____

$y =$ _____

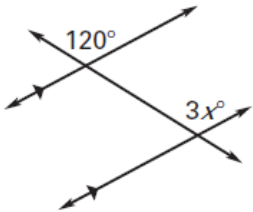
Postulate/Theorem Used

15.)



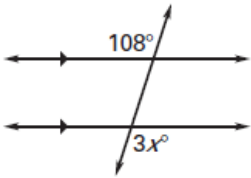
$x =$ _____

16.)



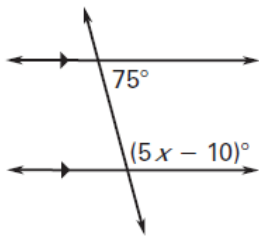
$x =$ _____

17.)



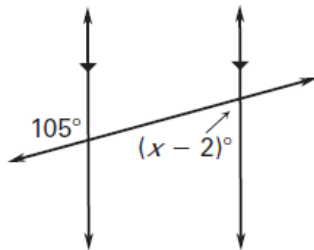
$x =$ _____

18.)



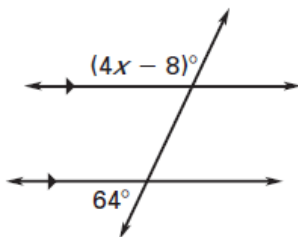
$x =$ _____

19.)

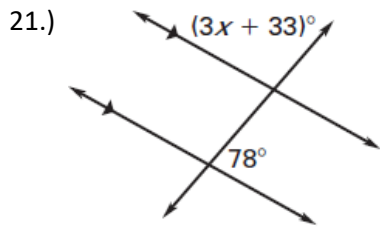


$x =$ _____

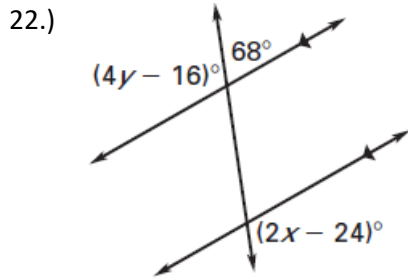
20.)



$x =$ _____

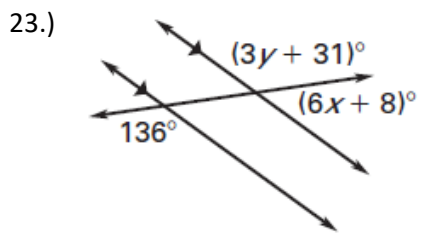


$x =$ _____



$x =$ _____

$y =$ _____



$x =$ _____

$y =$ _____

If you get stuck on 22 and 23 – try solving for y first...and using that knowledge to help you find x ☺