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Worksheet 5.R: Introduction to Geometry Review | Chapter 5

6. Find the distance between points $M(-4, 6)$ and $N(10, -5)$. Round to the nearest tenth if necessary.

7. Find the distance between $A(5.5, 0)$ and $B(2.75, 4.5)$. Round to the nearest tenth if necessary.

8. An archaeologist at a dig sets up a coordinate system using string. Two similar artifacts are found—one at position $(1, 4)$ and the other at $(5, 2)$. How far apart were the two artifacts? Round to the nearest tenth of a unit if necessary.

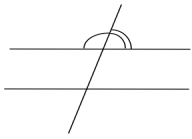
9. The coordinates of points A , B , and C are $(5, 4)$, $(-2, 1)$, and $(4, -4)$, respectively. Which point, B or C , is closer to point A ?

10. Bryce is looking at a map of a theme park. The map is laid out in a coordinate system. Bryce is at $(2, 3)$. The roller coaster is at $(7, 8)$, and the water ride is at $(9, 1)$. Is Bryce closer to the roller coaster or the water ride?

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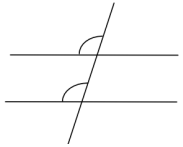
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B. Fill in the blanks with the matching vocabulary term. Then write the definition of the new vocabulary term.

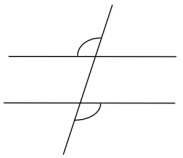


Example:

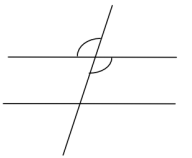
Supplementary Angles: Supplementary angles are angles that have a sum of 180 degrees.



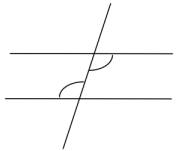
1. _____



2. _____



3. _____



4. _____

C. Classify each pair of angles appropriately using the picture below.

1. $\angle 1$ and $\angle 8$

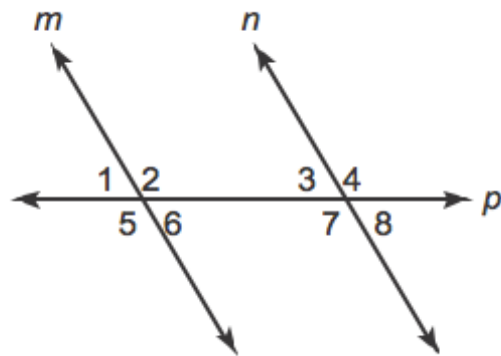
2. $\angle 5$ and $\angle 7$

3. $\angle 3$ and $\angle 6$

4. $\angle 2$ and $\angle 5$

5. $\angle 2$ and $\angle 7$

6. $\angle 4$ and $\angle 8$



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D. If $m\angle 4 = 65^\circ$, find each given angle measure. How do you know this? **Justify.**

1. $m\angle 8$

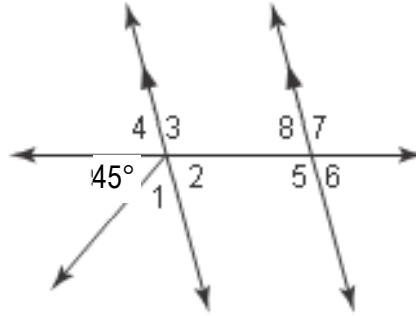
2. $m\angle 5$

3. $m\angle 2$

4. $m\angle 1$

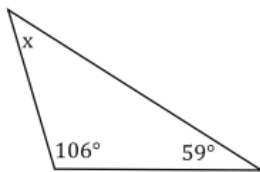
5. $m\angle 6$

6. $m\angle 7$

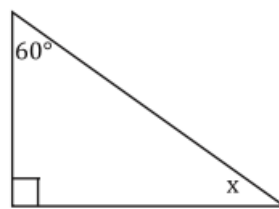


E. Find the missing angle measure in each of the following problems.

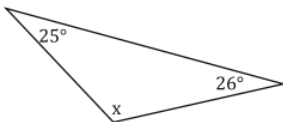
1.



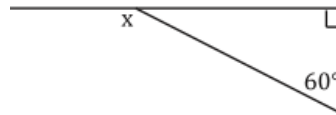
2.



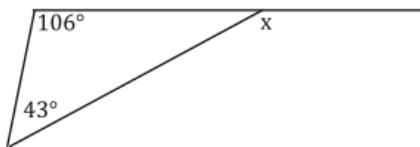
3.



4.



5.



6.

A triangle has angles measuring 23° and 62° . What is the measure of the third angle?

7. What is the angle sum of a triangle?

8. What does "congruent" mean? (You may look this up in your textbook.)