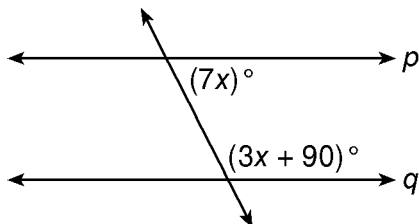


Name: _____
Kobrin/Losquadro

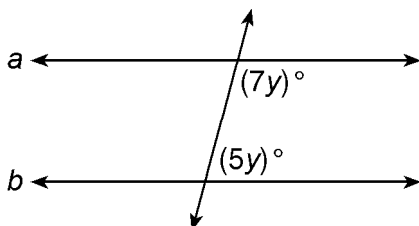
January 23, 2018
Math 8

Supplementary Angles Formed by Parallel Lines cut by a Transversal - Homework

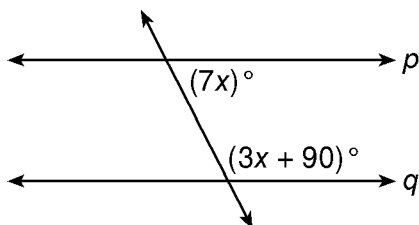
- 1) Solve for x when $p \parallel q$.



- 2) Solve for y when $a \parallel b$.

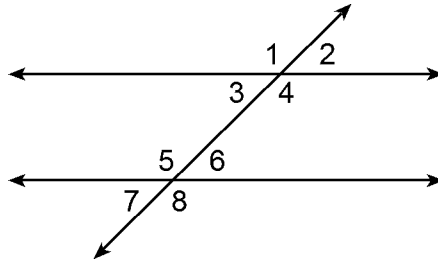


- 3) Solve for x when $p \parallel q$.



Questions 4 through 8 refer to the following:

In the diagram below, two parallel lines are cut by a transversal. Based on this diagram, identify the angle relationship for the given angle pair.



- 4) $\angle 3$ and $\angle 6$
- | | |
|-------------------------|------------------------------|
| A) corresponding angles | C) alternate interior angles |
| B) vertical angles | D) alternate exterior angles |
- 5) $\angle 1$ and $\angle 4$
- | | |
|-------------------------|------------------------------|
| A) supplementary angles | C) alternate interior angles |
| B) corresponding angles | D) vertical angles |
- 6) $\angle 3$ and $\angle 7$
- | | |
|--|------------------------------|
| A) corresponding angles | C) alternate exterior angles |
| B) interior angles on the same side of the transversal | D) alternate interior angles |
- 7) $\angle 2$ and $\angle 7$
- | | |
|------------------------------|------------------------------|
| A) supplementary angles | C) vertical angles |
| B) alternate exterior angles | D) alternate interior angles |
- 8) $\angle 4$ and $\angle 6$
- | | |
|------------------------------|--|
| A) alternate interior angles | C) vertical angles |
| B) corresponding angles | D) interior angles on the same side of the transversal |

1) 9

2) 15

3) 9

4) C 5) D 6) A 7) B 8) D