

# Topic No. 06



#1

1. Which of the below best describes this situation:

Two lines have different slopes.

- (A) The two lines will only intersect once.
- (B) The two lines are parallel, and will never intersect.
- (C) The two lines overlap, and will intersect an infinite number of times.
- (D) You cannot determine how many times the lines will intersect.

2. Which of the below best describes this situation:

Two lines have the same slope, but different y-intercepts.

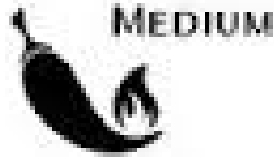
- (A) The two lines will only intersect once.
- (B) The two lines are parallel, and will never intersect.
- (C) The two lines overlap, and will intersect an infinite number of times.
- (D) You cannot determine how many times the lines will intersect.

3. Which of the below best describes this situation:

Two lines have the same slope, and have the same y-intercepts.

- (A) The two lines will only intersect once.
- (B) The two lines are parallel, and will never intersect.
- (C) The two lines overlap, and will intersect an infinite number of times.
- (D) You cannot determine how many times the lines will intersect.

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4. Which of the below best describes the lines derived from these two equations:

$$y = 2x + 5$$

$$y = x + 5$$

- (A) The two lines will only intersect once.
- (B) The two lines are parallel, and will never intersect.
- (C) The two lines overlap, and will intersect an infinite number of times.
- (D) You cannot determine how many times the lines will intersect.
5. Which of the below best describes the lines derived from these two equations:

$$y = 2x + 5$$

$$y = 2x + 10$$

- (A) The two lines will only intersect once.
- (B) The two lines are parallel, and will never intersect.
- (C) The two lines overlap, and will intersect an infinite number of times.
- (D) You cannot determine how many times the lines will intersect.
6. Which of the below best describes the lines derived from these two equations:

$$y = 2x + 5$$

$$y = 2x + 5$$

- (A) The two lines will only intersect once.
- (B) The two lines are parallel, and will never intersect.
- (C) The two lines overlap, and will intersect an infinite number of times.
- (D) You cannot determine how many times the lines will intersect.