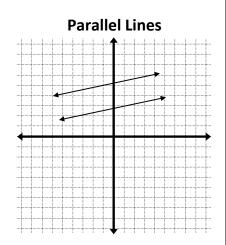
Score

Lines that are parallel have equal slopes



Recall that...

$$y = mx + b$$

b = "the y-intercept"

Are the following lines parallel to each other?

$$y = 3x + 7$$

$$v = x + 7$$

NO

$$y = 5x + 12$$
 $y = 5x - 1$

$$y = (5x) - 1$$

YES

- 1) What is the slope of a line parallel to the line y = -2x + 3?
- A. 3
- B. 2
- C. $-\frac{1}{2}$
- D. -2

- 3) What is the slope of a line parallel to the line y = -x + 3?
- A. -1
- B. 1

- 2) What is the slope of a line parallel to the line $y = \frac{1}{2}x - 7$?
- A. -7
- B. $-\frac{1}{2}$
- C. $\frac{1}{2}$
- D. 2

- 4) What is the slope of a line parallel to the line y = 3x + 4?
- A. 4
- B. 3
- D. -4

Slopes of Parallel Lines (1A8.0)

- 5) What is the slope of a line parallel to the line $y = \frac{1}{10}x + 2$?
- A. 10
- B. 2
- C. 1
- D. $\frac{1}{10}$
- 6) Which of the following statements is NOT true of two distinct parallel lines?
- A. They have the same slopes
- B. They have the same y-intercepts
- C. They have the same ratio of rise to run
- D. They have different x-intercepts
- 7) In a plane, line *l* contains the points (0,0) and (2,2). If line *z* is parallel to line *l*, its slope must be
- A. 2
- B. 1
- C. $\frac{1}{2}$
- D. -2

- 8) Which of the following statements describes two lines that are parallel?
- A. They share the same x and y intercepts
- B. They are the same distance from the origin
- C. They never intersect the origin
- D. They have the same slopes
- 9) When written in y = mx + b form, which variable is the same for any 2 parallel lines?
- A. y
- B. x
- C. m
- D. b
- 10) Lines I and r have different x and y intercepts but the same slope. Lines I and r are—
- A. complementary
- B. perpendicular
- C. equidistant
- D. parallel

Slopes of Parallel Lines (1A8.0)

- 11) Which of the following could be the equation of a line parallel to the line whose equation is $y = \frac{1}{3}x + 5$?
- A. y = 3x + 5
- B. $y = -\frac{1}{3}x 5$
- C. $y = \frac{1}{3}x + 7$
- D. $y = 5x + \frac{1}{3}$
- 12) Which of the following could be the equation of a line parallel to the line whose equation is y = x + 3?
- A. y = x 3
- B. y = -x + 4
- C. $y = \frac{x}{3} 3$
- D. y = 3x
- 13) Which of the following could be the equation of a line parallel to the line whose equation is y = -6x + 12?
- A. y = 12x 6
- B. y = 6x + 2
- C. y = -6x
- D. y = -12x + 6

- 14) Which of the following could be the equation of a line parallel to the line whose equation is y = 2x + 9?
- A. y = 9x 2
- B. y = 2x + 2
- C. y = -2x 9
- D. $y = \frac{1}{2}x$
- 15) Which of the following could be the equation of a line parallel to the line whose equation is $y = \frac{x}{4} + 3$?
- A. y = 4x
- B. y = -4x + 3
- C. $y = \frac{3x}{4} + 1$
- D. $y = \frac{x}{4} 2$
- 16) Which of the following could be the equation of a line parallel to the line 3y 6x = 9?
- A. y = -6x
- B. y = 6x
- C. y = 2x
- D. $y = \frac{1}{3}$