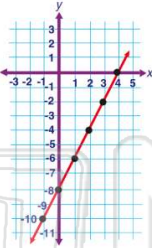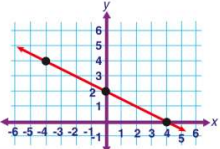# Linear equations

Math

Name_____ Class_____ Date_____

1 The graph shown represents which **linear equation**?

A $y = x - 8$
B $y = 2x + 9$
C $y = 2x - 8$
D $y = 3x - 8$

2 What is the **slope and y-intercept** of the line shown?

A slope = -2, y-intercept = 2
B slope = -2, y-intercept = 4
C slope = $\frac{-1}{2}$, y-intercept = 4
D slope = $\frac{-1}{2}$, y-intercept = 2

3 The slopes of **parallel lines** are negative reciprocals of each other.

True or false?

4 What is the equation of a line that goes through the point **(-2, 1)** and has a slope of **3** in **point-slope form**?

A $y + 1 = 3x - 2$

5

7

A $y + 2 = \frac{2}{3}x + 4$ D $y - 2 = \frac{2}{3}x - 6$

B $y - 2 = \frac{2}{3}x + 6$ C $y + 2 = \frac{2}{3}x - 4$

A $y + 1 = \frac{-1}{3}x - 1$ C $y + 1 = 3x - 1$

B $y - 1 = \frac{-1}{3}x - 3$ D $y - 1 = 3x - 3$

9 What is the equation of a line that goes through the **origin** and is parallel to the line **$y = x - 3$** in **point-slope form**?
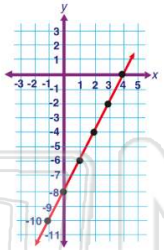
A $y = x - 1$
B $y = 3x$
C $y = x + 1$
D $y = x$

10 What is the equation of a line that goes through the point **(-5, -3)** and is **parallel** to the **x-axis**?

A $y = -5$
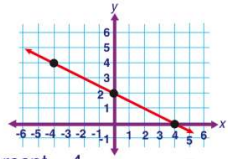B $y = -3$
C $x = -5$
D $x = -3$

Name_____ Class_____ Date_____

1 The graph shown represents which **linear equation**?

A $y = x - 8$
B $y = 2x + 9$
C $y = 2x - 8$
D $y = 3x - 8$

C

2 What is the **slope and y-intercept** of the line shown?

A slope = -2, y-intercept = 2
B slope = -2, y-intercept = 4
C slope = $\frac{-1}{2}$, y-intercept = 4
D slope = $\frac{-1}{2}$, y-intercept = 2

D

3 The slopes of **parallel lines** are negative reciprocals of each other.

True or false?

B

4 What is the equation of a line that goes through the point **(-2, 1)** and has a slope of **3** in **point-slope form**?

A $y + 1 = 3x - 2$

C

5

D

7

A $y + 2 = \frac{2}{3}x + 4$ D $y - 2 = \frac{2}{3}x - 6$

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A $y + 1 = \frac{-1}{3}x - 1$ C $y + 1 = 3x - 1$

B $y - 1 = \frac{-1}{3}x - 3$ D $y - 1 = 3x - 3$

A

9 What is the equation of a line that goes through the **origin** and is parallel to the line **y = x − 3** in **point-slope form**?

A $y = x - 1$
B $y = 3x$
C $y = x + 1$
D $y = x$

D

10 What is the equation of a line that goes through the point **(-5, -3)** and is **parallel** to the **x-axis**?

A $y = -5$
B $y = -3$
C $x = -5$
D $x = -3$

B