

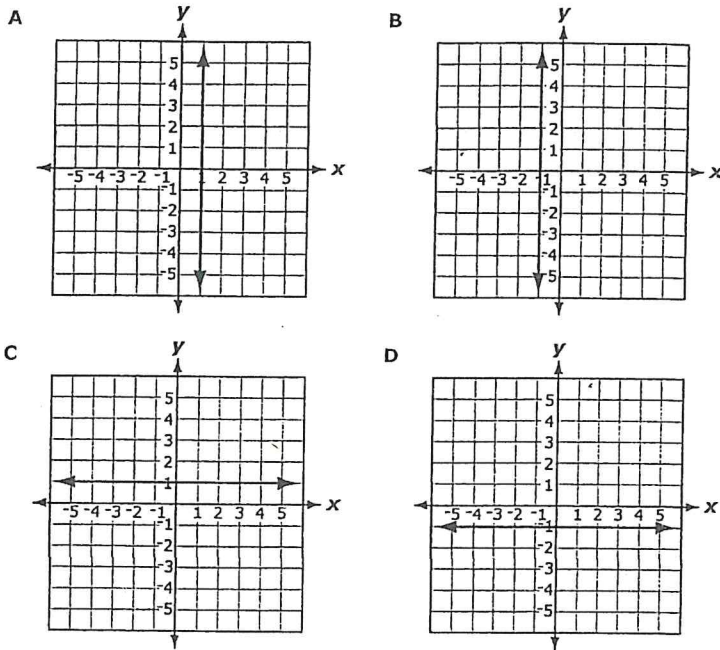
April 10th

NAME _____

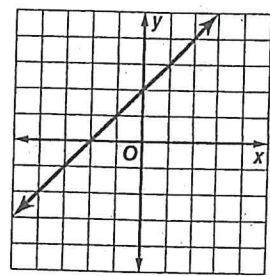
PA.A.1.3

1

Which graph represents the function $y = 1$?



2



What is the equation of the graphed function?

- A $y = x + 2$
- B $y = \frac{x}{2} - 2$
- C $y = -x + 2$
- D $y = -\frac{x}{2} - 2$

3

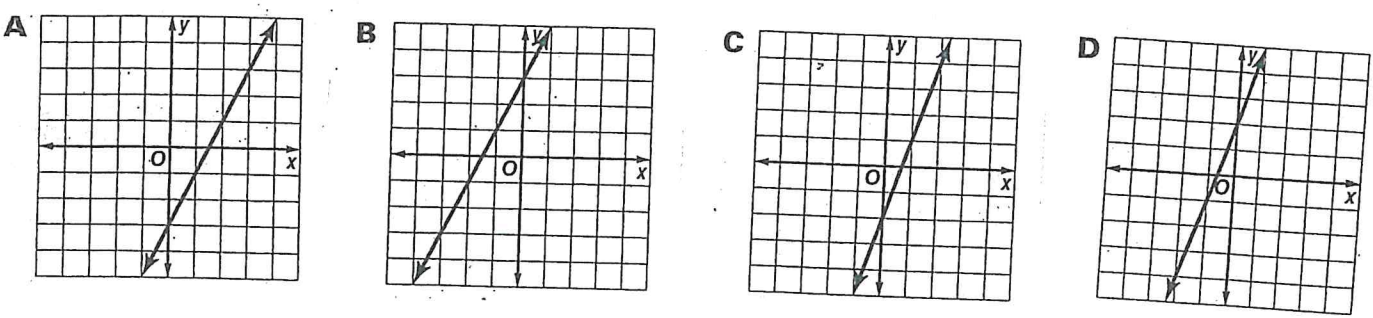
$$-6x + 3y = 2$$

What is the slope of this line?

- F -2
- G $-\frac{2}{3}$
- H $\frac{2}{3}$
- J 2

4

Which graph represents a line with a y-intercept of -3 and a slope of 2 ?



5 Find the equation of a line, in slope-intercept form, with slope -5 and y -intercept 2 .

A. $y = -\frac{1}{5}x - 2$

B. $y = -5x + 2$

C. $x = -5y + 2$

D. $y = -5x - 2$

$$-4x + 3y = 6$$

6 What is the slope of the line given by the equation?

A -4

B $-\frac{4}{3}$

C $\frac{4}{3}$

D 4

7 Which of the following equations represents a vertical line?

A $x = y$

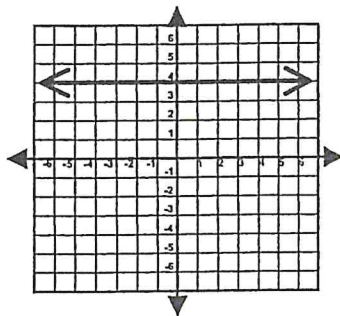
B $x = 4$

C $y = -2$

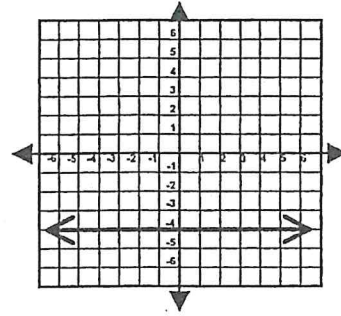
D $y = x$

8 Which of the following graphs represents the function $x = -4$?

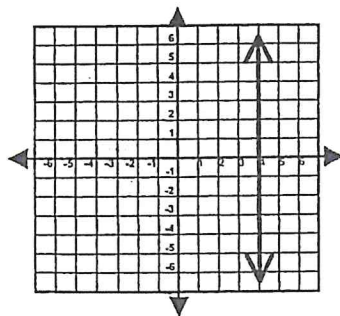
A



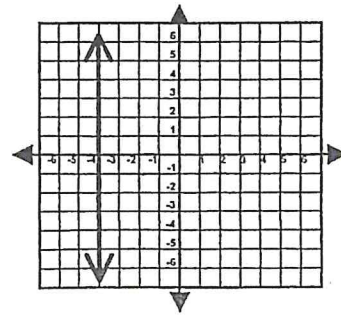
B



C



D



Slope-intercept form

$y = mx + b \leftarrow y\text{-intercept}$

Slope = $\frac{\text{rise}}{\text{run}}$

April 10th

NAME Key

PA.A.1.3

① Which graph represents the function $y = 1$? *this must intersect the y-axis at 1.*

A

B

C

D

②

$m = \frac{\text{rise}}{\text{run}} = \frac{1}{1}$

What is the equation of the graphed function?

A $y = x + 2$
 B $y = \frac{x}{2} - 2$
 C $y = -x + 2$
 D $y = -\frac{x}{2} - 2$

③ $-6x + 3y = 2$

What is the slope of this line?

F -2
 G $-\frac{2}{3}$
 H $\frac{2}{3}$
 J 2

Handwritten work:

$$\begin{array}{r} \cancel{-6x} + 3y = 2 \\ +6x \qquad \qquad +6x \\ \hline 3y = \frac{6x + 2}{3} \\ \frac{3y}{3} = \frac{6x + 2}{3} \\ y = 2x + \frac{2}{3} \end{array}$$

④ Which graph represents a line with a y-intercept of -3 and a slope of 2?

A

B

C

D

$m = \frac{2}{1} = \frac{\text{rise}}{\text{run}}$

$b = -3$ - crosses the y-axis

5 Find the equation of a line, in slope-intercept form, with slope -5 and y -intercept 2 .

A. $y = -\frac{1}{5}x - 2$

B. $y = -5x + 2$

C. $x = -5y + 2$

D. $y = -5x - 2$

$$-4x + 3y = 6$$

6 What is the slope of the line given by the equation?

A -4

B $-\frac{4}{3}$

C $\frac{4}{3}$

D 4

$$\begin{aligned} -4x + 3y &= 6 \\ +4x & \quad +4x \\ \hline 3y &= 4x + 6 \\ \frac{3y}{3} &= \frac{4x}{3} + \frac{6}{3} \\ y &= \frac{4}{3}x + 2 \end{aligned}$$

7 Which of the following equations represents a vertical line?

A $x = y$

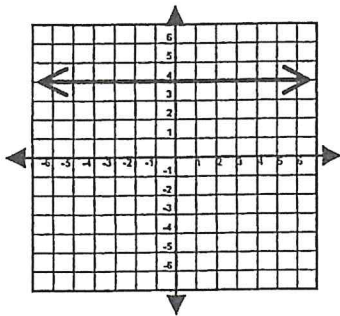
B $x = 4$

C $y = -2$

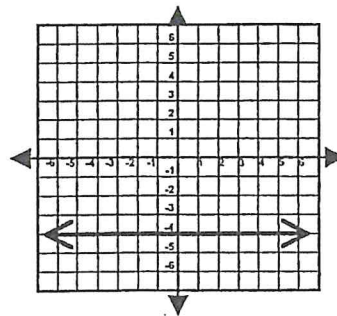
D $y = x$

8 Which of the following graphs represents the function $x = -4$?

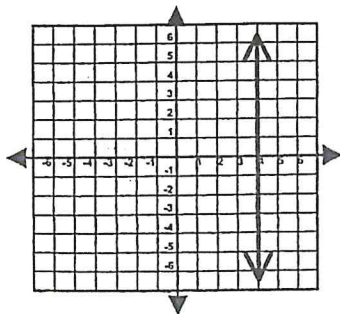
A



B



C



D

