

GRADE 10 Focus on Sunshine State Standards: Benchmark Tests
MA.912.G.1.4 Benchmark Pre-Test (Multiple Choice)

1. What is the slope of the line between the points $(-1, 2)$ and $(4, 3)$?

- A. $-\frac{1}{5}$
- B. $\frac{1}{5}$
- C. $\frac{1}{3}$
- D. 5

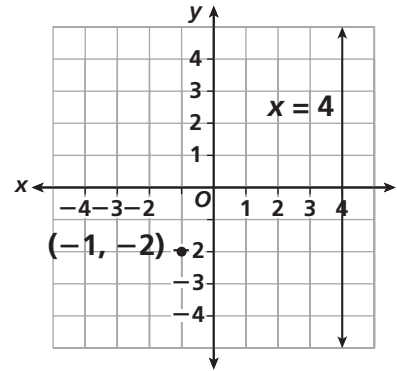
2. What is the equation of the line with slope -2 that passes through the point $(1, 5)$?

- F. $y = -2x - 7$
- G. $y = -2x + 5$
- H. $y = -2x + 7$
- I. $y = 7x - 2$

3. What is the equation of the line that passes through the points $(1, 3)$ and $(4, 5)$?

- A. $y = \frac{2}{3}x + \frac{2}{3}$
- B. $y = \frac{2}{3}x + \frac{7}{3}$
- C. $y = \frac{3}{2}x + \frac{3}{2}$
- D. $y = \frac{3}{2}x + 3$

4. The graph of the line $x = 4$ is shown.



What is the equation of the line that passes through the point shown, $(-1, -2)$, and is parallel to the line $x = 4$?

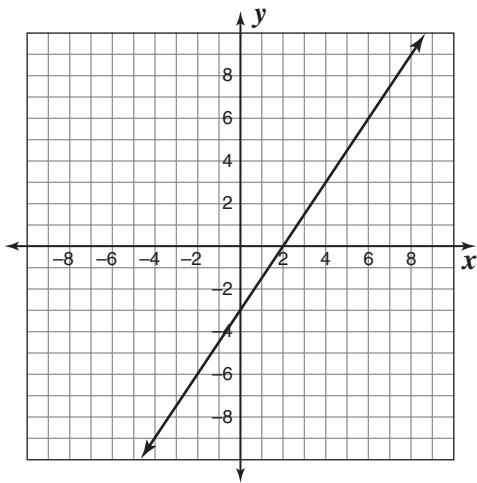
- F. $x = -2$
- G. $x = -1$
- H. $y = -2$
- I. $y = -1$

5. What is the equation of the line perpendicular to $y = -\frac{1}{3}x + 2$ with y -intercept 4?

- A. $y = \frac{1}{3}x + 4$
- B. $y = 3x - 4$
- C. $y = 3x + 2$
- D. $y = 3x + 4$

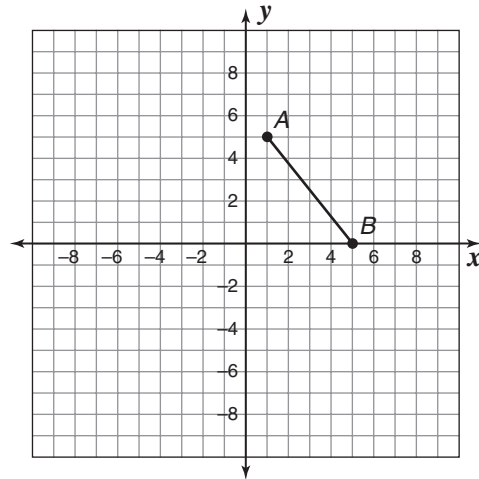
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6. Which two lines are parallel?
 F. $3x + 5y = 7$ and $5x + 3y = -2$
 G. $3x + 2y = 9$ and $6x + 4y = -2$
 H. $2x + 7y = 8$ and $-2x + 7y = -11$
 I. $5x + 4y = 12$ and $10x - 8y = 20$
7. Which equation describes a line parallel to the line graphed?



- A. $y = -\frac{3}{2}x - 3$
 B. $y = -\frac{2}{3}x - 5$
 C. $y = \frac{2}{3}x + 1$
 D. $y = \frac{3}{2}x + 4$
8. Which of the following best describes the graphs of the lines $y = 5 - 3x$ and $6y = 2x + 5$?
 F. The lines have the same x -intercept.
 G. The lines have the same y -intercept.
 H. The lines are parallel to each other.
 I. The lines are perpendicular to each other.

9. Line d is the perpendicular bisector of \overline{AB} . What is the slope of line d ?



- A. $-\frac{4}{5}$
 B. $-\frac{5}{4}$
 C. $\frac{4}{5}$
 D. $\frac{5}{4}$
10. Segments of the lines $y = 3x - 4$ and $y = mx + 1$ form opposite sides of a parallelogram. What is the value of m in the second equation?
 F. -3
 G. 3
 H. $-\frac{1}{3}$
 I. $\frac{1}{3}$