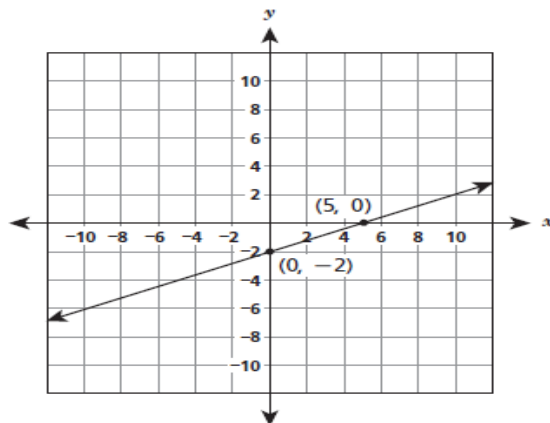


Name: _____
8.EE.6

Date: _____

____ 1. Which equation represents the line shown on the coordinate grid below? (2014)



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

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

B. $y = \frac{2}{5}x + 5$

D. $y = -\frac{2}{5}x + 5$

____ 2. A line contains the points (4, 2) and (0, -1). What is the equation of the line? (2015)

A. $y = 2x - 6$

C. $y = \frac{1}{4}x + 1$

B. $y = \frac{3}{4}x - 1$

D. $y = \frac{4}{3}x - \frac{10}{3}$

____ 3. What is the equation of the line that passes through point (4, 12) and has a y-intercept of -2? (2015)

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

C. $y = 2x - 2$

B. $y = \frac{7}{2}x - 2$

D. $y = 6x - 2$

____4. What is the equation of the line that passes through points $(-3, 0.5)$ and $(3, -0.5)$? (2016)

A. $y = -\frac{1}{6}x$

C. $y = -\frac{1}{6}x + 1$

B. $y = -6x$

D. $y = -6x - 17.5$

____5. The points $(4, 1)$ and $(x, -6)$ lie on the same line. If the slope of the line is 1, what is the value of x ? (2018)

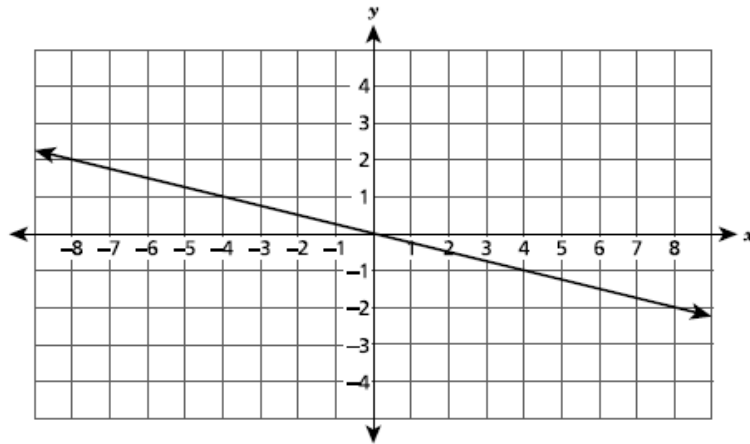
A. $x = -3$

B. $x = 3$

C. $x = 9$

D. $x = 11$

____6. Which equation represents the line shown on the coordinate plane below? (2019 and 2021)



A. $y = 4x$

B. $y = -4x$

C. $y = \frac{1}{4}x$

D. $y = -\frac{1}{4}x$

____7. On a coordinate plane, the graph of a line passes through the origin and the point $(10, 14)$. What is the equation of the line? (2021)

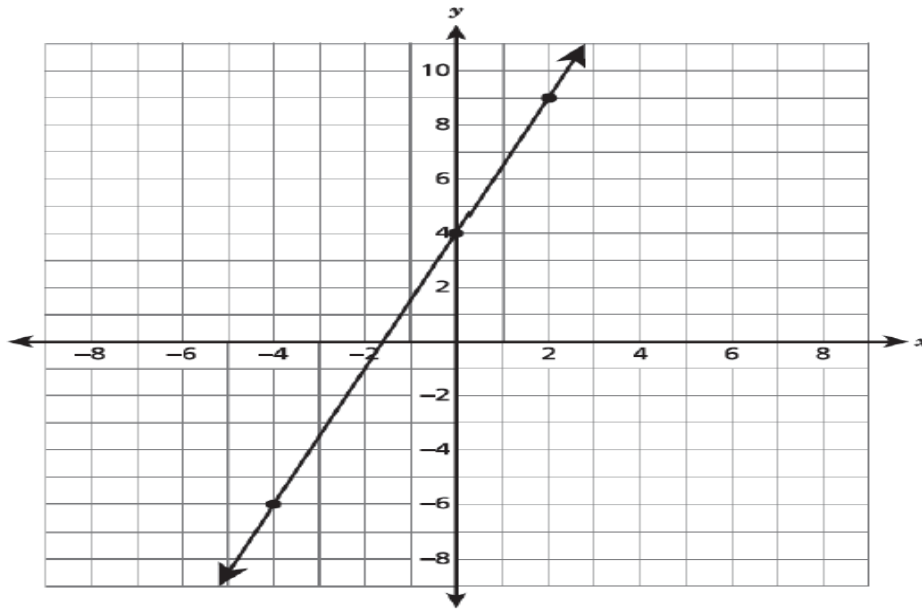
A. $y = \frac{5}{7}x$

B. $y = \frac{7}{5}x$

C. $y = x + \frac{5}{7}$

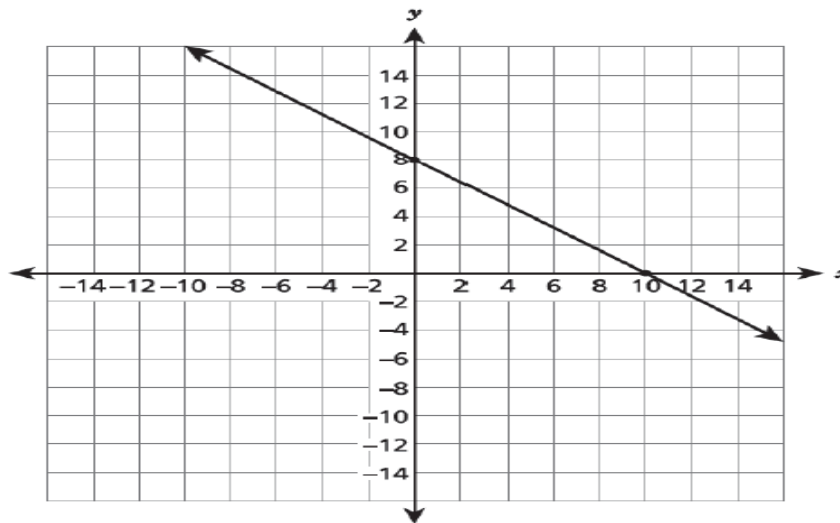
D. $y = x + \frac{7}{5}$

8. Which equation represents the line shown on the coordinate plane below? (2022)



- A. $y = \frac{2}{5}x + 4$ B. $y = \frac{2}{3}x + 4$ C. $y = \frac{3}{2}x + 4$ D. $y = \frac{5}{2}x + 4$

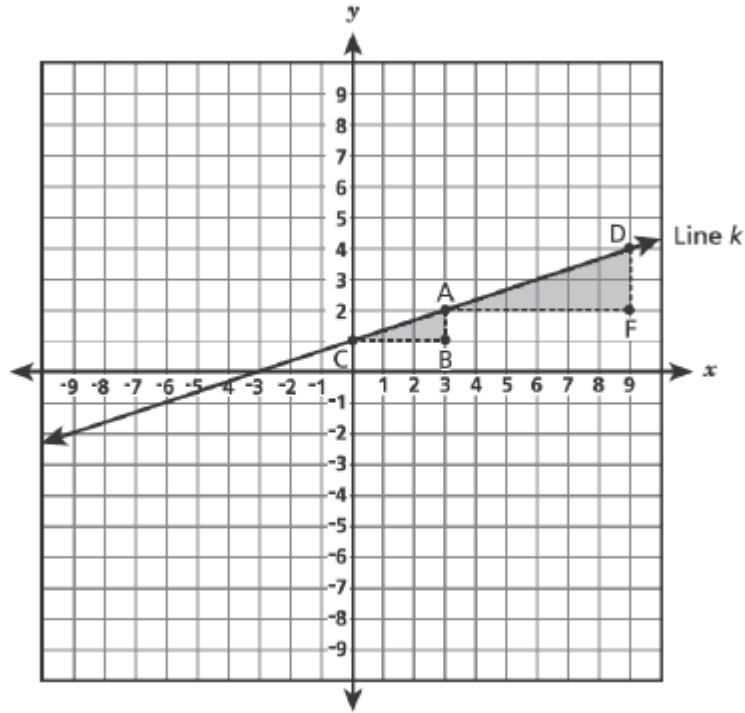
9. A line is graphed on the coordinate plane shown below. (2022)



What is the equation of the line?

- A. $y = -\frac{4}{5}x + 8$ B. $y = \frac{4}{5}x + 10$ C. $y = -\frac{5}{4}x + 8$ D. $y = \frac{5}{4}x + 10$

10. The hypotenuses of similar triangles ABC and DFA both lie on the line k , as shown below.



Demonstrate whether the slope of line k is constant between points C and D. Use the leg lengths of the triangles ABC and DFA in your answer. (2017)
