

Unit 4 Test Review

Write the slope-intercept form of the equation of each line given the slope and y-intercept.

1) Slope = $-\frac{3}{2}$, y-intercept = 3

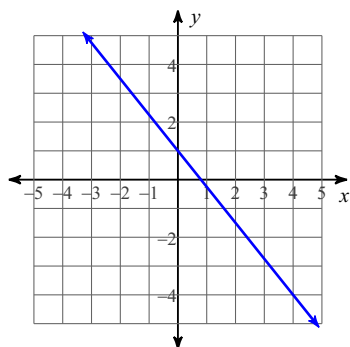
2) Slope = $\frac{1}{3}$, y-intercept = 1

3) Slope = $\frac{1}{5}$, y-intercept = 4

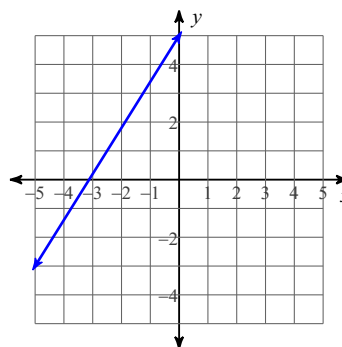
4) Slope = -5 , y-intercept = -5

Write the slope-intercept form of the equation of each line.

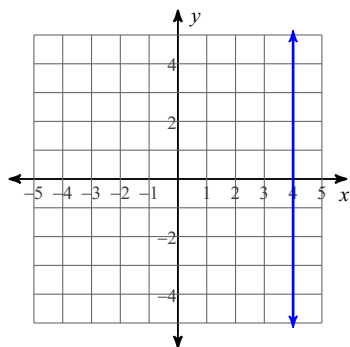
5)



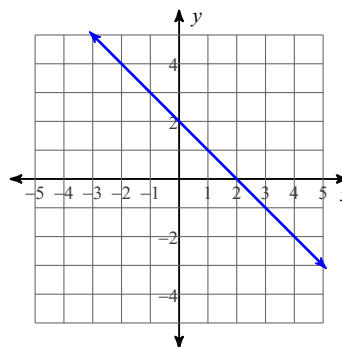
6)



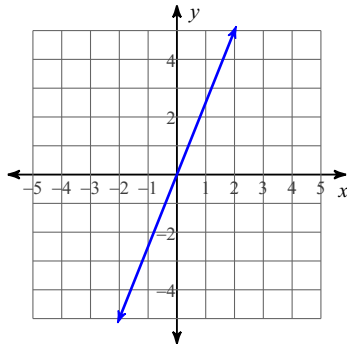
7)



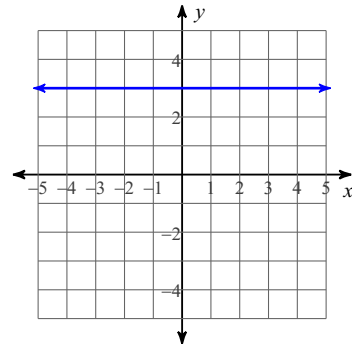
8)



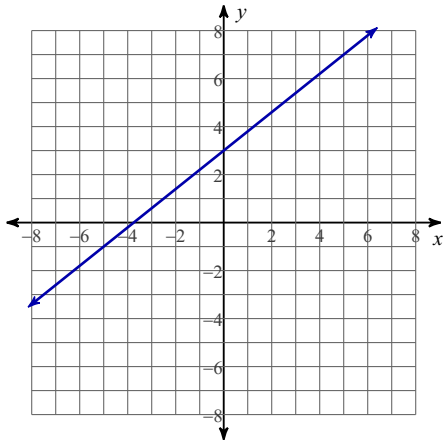
9)



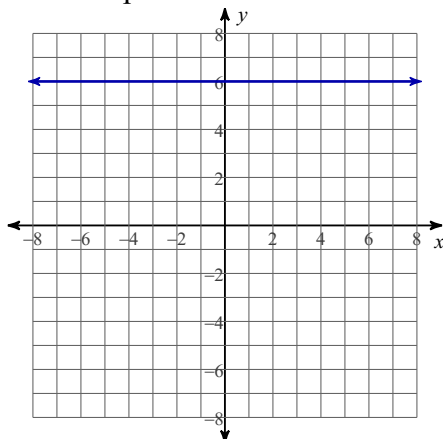
10)



11) Holly thinks the equation of the given line is $y = \frac{4}{5}x + 3$. Danny says she is wrong and the equation is actually $y = -\frac{4}{5}x + 3$. Who is right, Danny or Holly? Why are they right?



12) Is the slope of the line zero or undefined? EXPLAIN how you know.



Write the slope-intercept form of the equation of the line through the given point with the given slope.

13) through: $(1, -4)$, slope = -6

14) through: $(1, 3)$, slope = 0

15) through: $(0, 4)$, slope = $-\frac{5}{3}$

16) through: $(5, -3)$, slope = $-\frac{7}{5}$

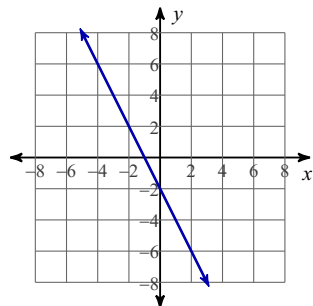
17) through: $(3, 5)$, slope = undefined

18) through: $(-5, -4)$, slope = $\frac{6}{5}$

19) Which of the following has the lower y-intercept?

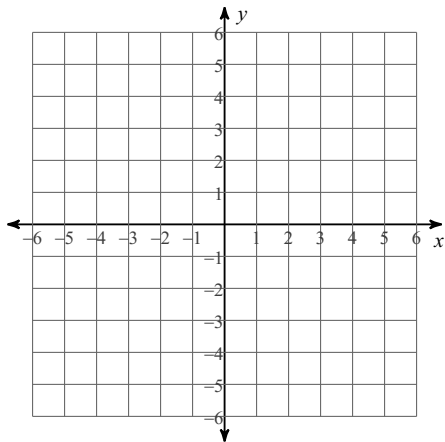
A) $y=5x-8$

B)

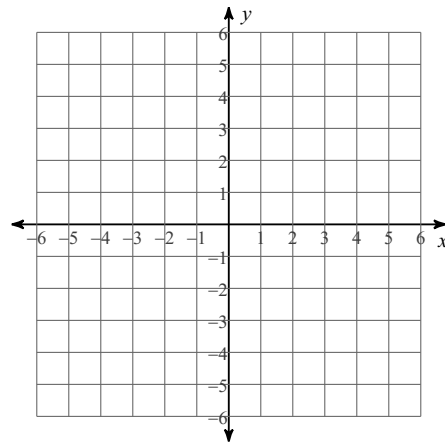


Sketch the graph of each line.

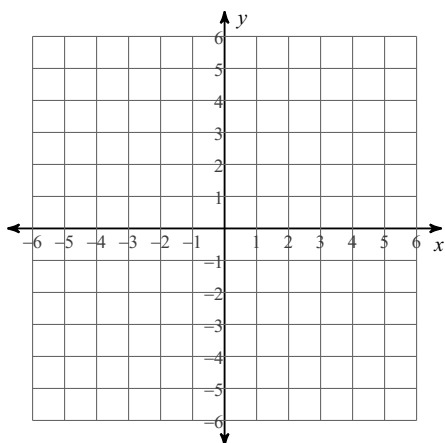
20) $y = -x$



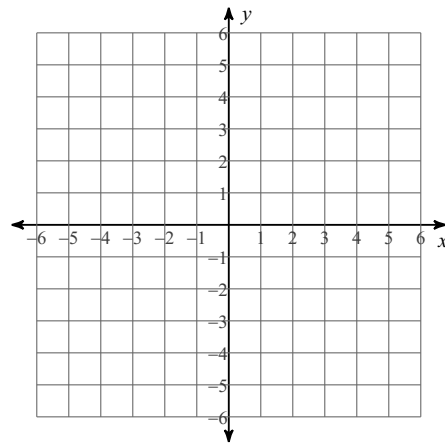
21) $y = 3x + 2$



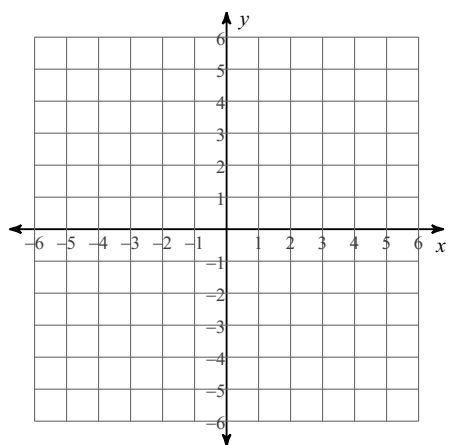
22) $y = -\frac{1}{4}x + 1$



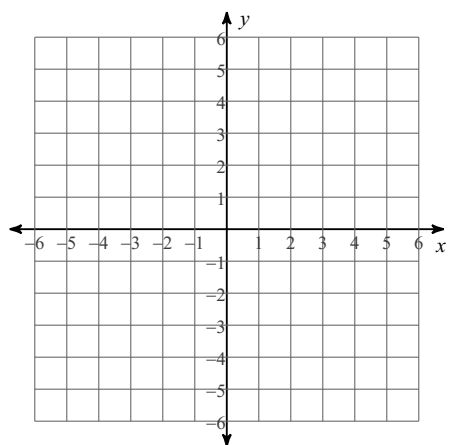
23) $y = -1$



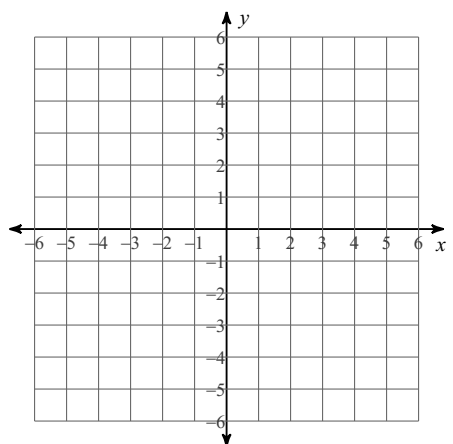
24) $y = x$



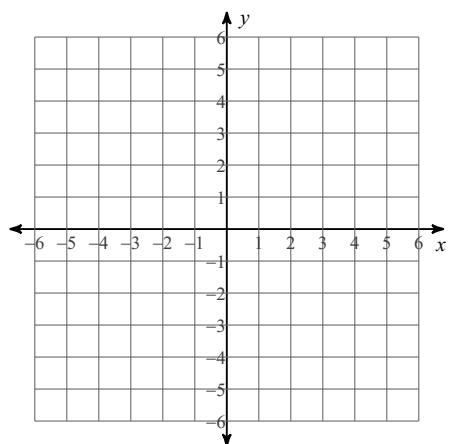
25) $x = 5$



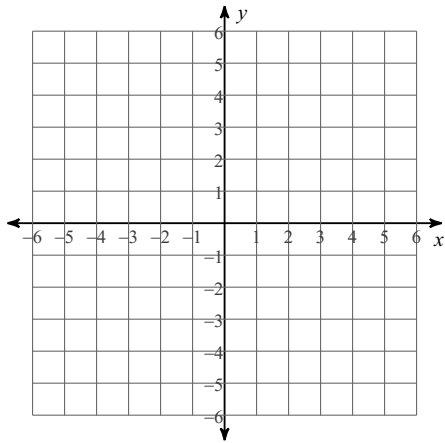
26) $3x - 2y = -6$



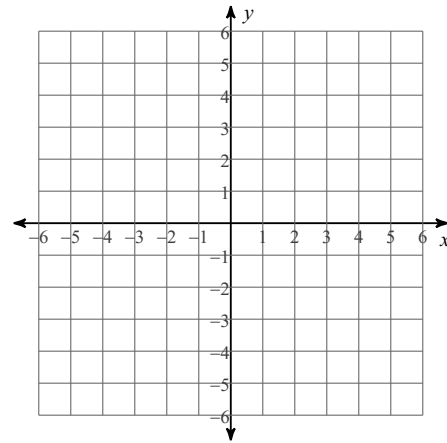
27) $7x + 5y = 25$



28) $5x + 3y = -3$



29) $2x - 5y = 20$



Find the slope of the line through each pair of points.

30) $(11, -11), (11, -13)$

31) $(7, 3), (0, 10)$

32) $(8, 19), (-13, -9)$

33) $(-17, -3), (-14, -3)$

34) Lauren found the slope between the two points $(7, 9)$ and $(-4, 10)$, but she made a mistake. What did she do wrong?

35) Sammy converted the equation $6x - 7y = 14$ into slope intercept form, but he made a mistake. What was his mistake?

36) Katie found the slope of the two points $(9, 3)$ and $(4, 7)$, but she made mistake. What was her mistake?