Section 7.1c – Practice Problems

Find the slope of the lines that go through the following points $\frac{y_2-y_1}{x_2-x_1}$

1. $(3,4)$ *and* $(6,-7)$

$\frac{-7-4}{6-3} = \boxed{\frac{-11}{3}}$

2. $(-3,8)$ *and* $(1,-7)$

$\frac{-7-8}{1-(-3)} = \frac{-15}{4}$

$\boxed{-\frac{15}{4}}$

3. $(0,4)$ *and* $(5,0)$

$\frac{0-4}{5-0} = \boxed{-\frac{4}{5}}$

4. $(4,4)$ *and* $(1,1)$

$\frac{1-4}{1-4} = \frac{-3}{-3} = \boxed{1}$

5. $(-9,-10)$ *and* $(-3,-7)$

$\frac{-7-(-10)}{-3-(-9)} = \frac{3}{6}$

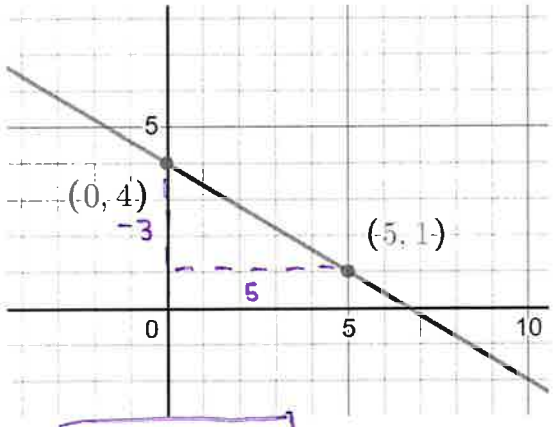
$\boxed{\frac{1}{2}}$

6. $(1,9)$ *and* $(-4,9)$

$\frac{9-9}{-4-1} = \frac{0}{-5} = \boxed{0}$

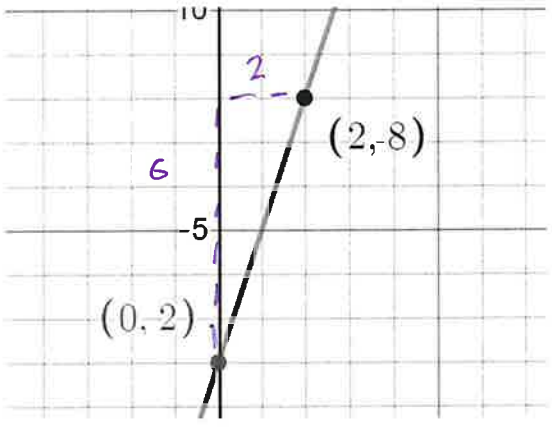
Write the equation of the lines on the grids below

7.



$\boxed{y = -\frac{3}{5}x + 4}$

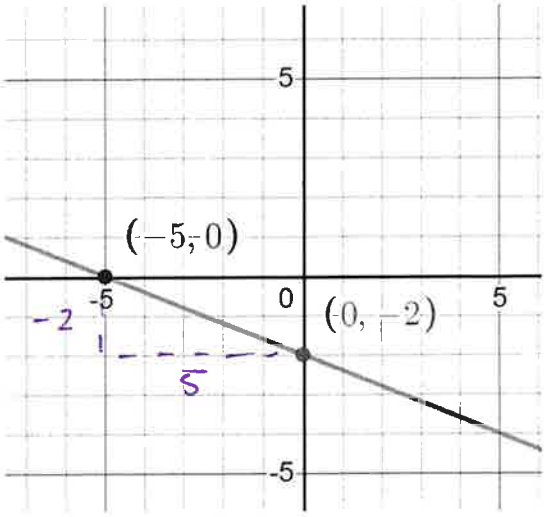
8.



$y = \frac{6}{2}x + 2$

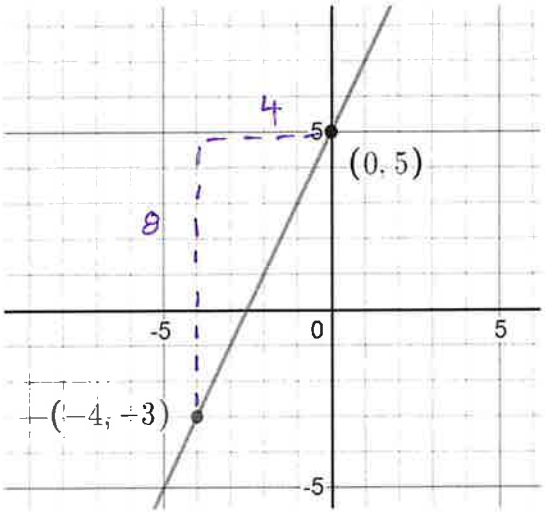
$\boxed{y = 3x + 2}$

9.



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

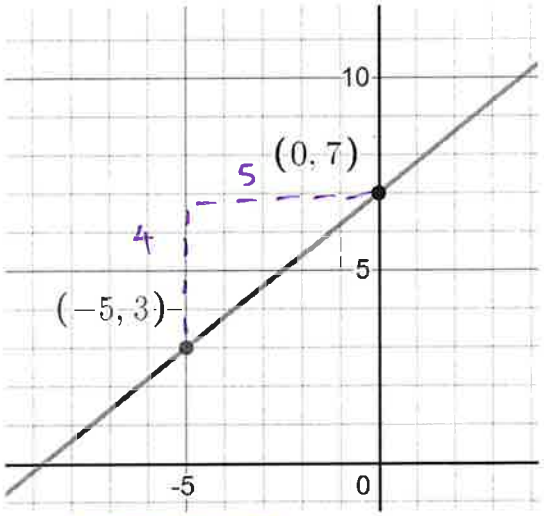
10.



$y = \frac{8}{4}x + 5$

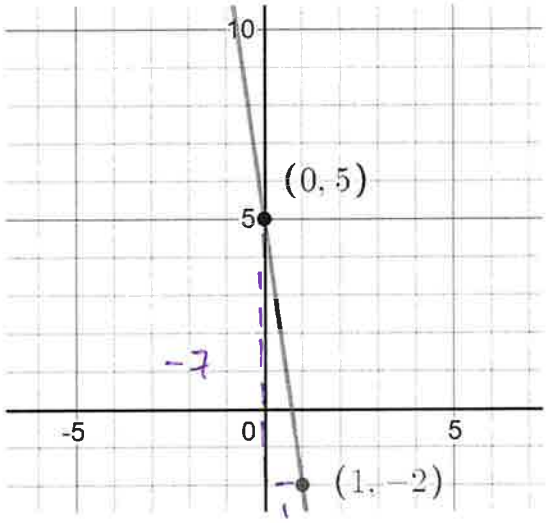
$y = 2x + 5$

11.



$y = \frac{4}{5}x + 7$

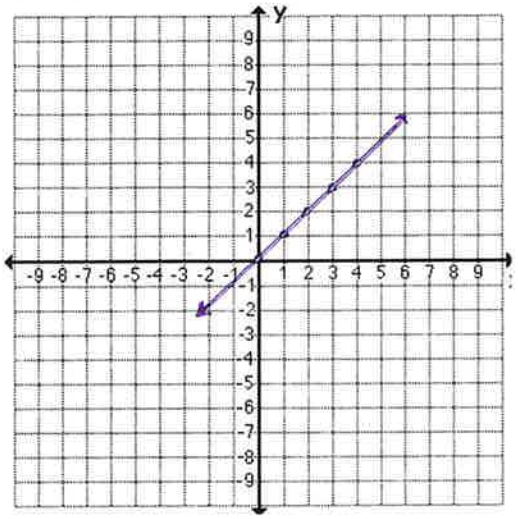
12.



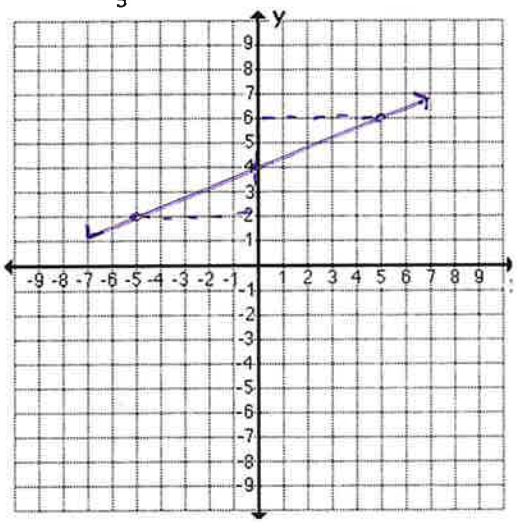
$y = -7x + 5$

13. Graph the following lines. Show the mapping of the Slope from at least one point to another

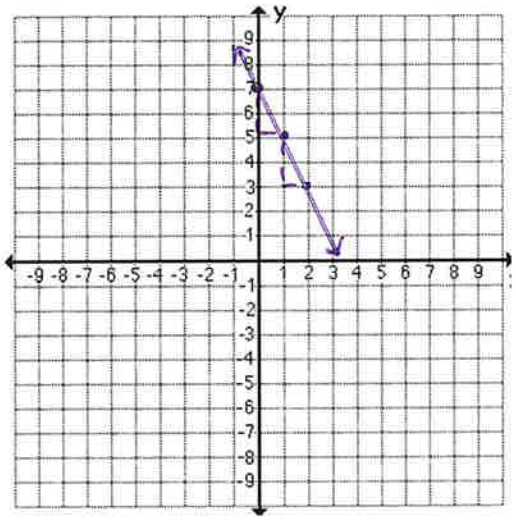
a) $y = x$



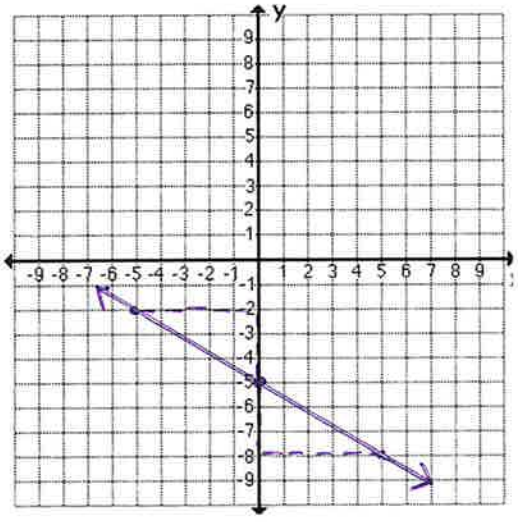
b) $y = \frac{2}{5}x + 4$



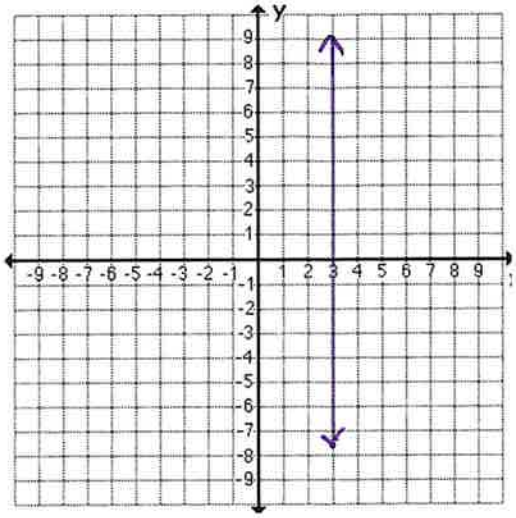
c) $y = -2x + 7$



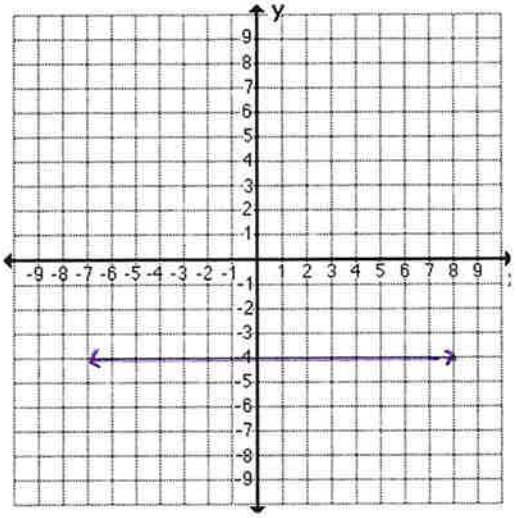
d) $y = -\frac{3}{5}x - 5$



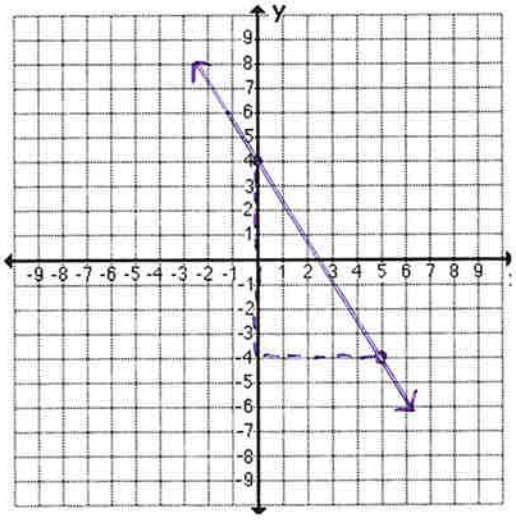
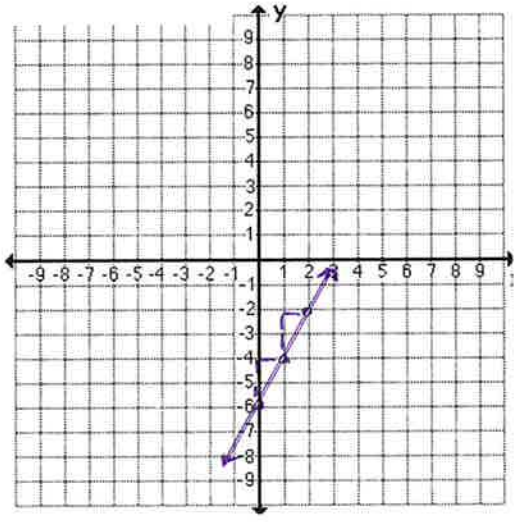
e) $y = 3$



f) $x = -4$



g) $y = -\frac{8}{5}x + 4$



h) $y = 2x - 6$