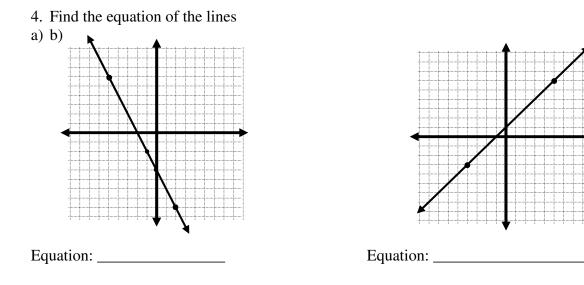


3. Check a point on the graph by substituting x and y coordinate in the y = equation to verify the coordinates fit the equation. Show work.

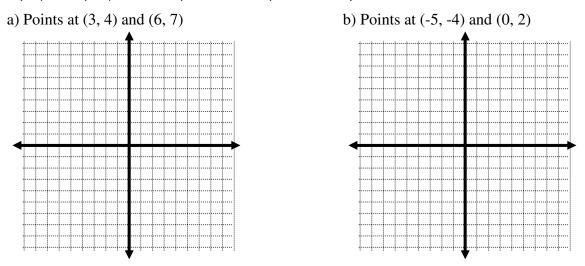
c)

b)

a)



5. Given two points on the line, graph the line and determine the equation of the line. Steps: i) find slope, ii) substitute x, y and m into the y = mx + b equation and solve for b.



6. Given two points on the line, graph the line and determine the equation of the line.

a) A(3, 9) and B(-4, -5) b) A(2, 8) and B(-4, -4)

7. The data is for the relationship of the amount of oxygen that is consumed as a person exercises.

Find the slope and y – int and determine the equation of the relationship

Minutes of	Vol. Of O <sub>2</sub>
exercise	consumed (L)
10	550
14	750
17	900

8. Write the equation of the line in Point – Slope Form.

a) A(-1, 7) and B(-4, 5)

Answers:

<sup>1. (</sup>a) slope = 3, y-int = -8, b) slope =  $-\frac{3}{4}$ , y-int = 2, c) slope = 1, y-int = -9, 4. (a) y = -2x - 4, b) y = x + 1, 5. (a) y = x + 1, b) y =  $\frac{6}{5x} + 2$ , 6. (a) y = 2x + 3, b) y = 2x + 4, c) y =  $\frac{4}{9x} + \frac{4}{9}$ , d) y =  $-\frac{2}{3x} - 2$ , 7. Vol of O<sub>2</sub> = 50(minutes exercised) + 50, 8. (a) y =  $\frac{2}{3}(x + 1) + 7$  OR y =  $\frac{2}{3}(x + 4) + 5$ , (b) y =  $-\frac{4}{7}(x - 5) - 4$  y =  $-\frac{4}{7}(x + 2) + 0$