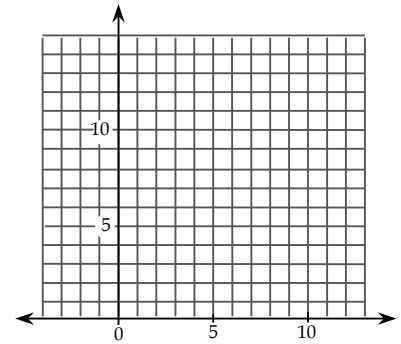


- 1) Solve for y:  $A = \frac{x+y}{2} \cdot h$  Draw a graph of the case when  $A = 24, h = 3$ .

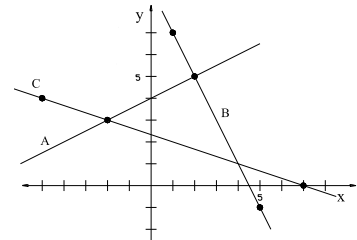


- 2) Find the **slope** and **y-intercept** then give the equation for each line shown. B is horizontal.

Line	Slope	y-intercept	Equation
A			
B			
C			

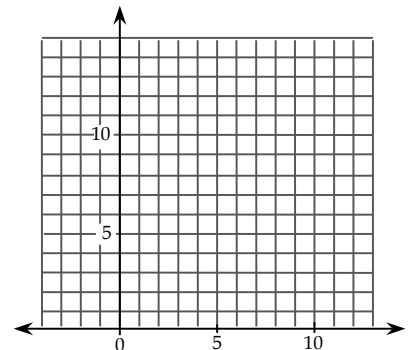
- 3) Find the equation for the following three lines.

- (a) Line A passes through: (-2, 3) & (2, 5)
- (b) Line B passes through: (1,7) & (5, -1)
- (c) Line C passes through: (-5,4) & (7, 0)



- 4) Simplify to slope intercept form and graph.

$$\frac{7}{4} + \frac{3x}{5} = \frac{2x + 5y}{20} + 2$$



5) Give the *slope* and *y-intercept* of each line.

(a)  $y = \frac{-3x}{5} + 6$

(b)  $y = \frac{5x - 12}{2}$

(c)  $y = 4 - x$

(d)  $3y - 4x = 24$

6) Convert to Slope-Intercept form: (a)  $4x + 3y = 12$

(b)  $7x - 5y = 25$

7) Convert to Standard-Integer form: (a)  $y = (\frac{3}{4})x + 8$

(b)  $y = (-\frac{5}{8})x - 12$

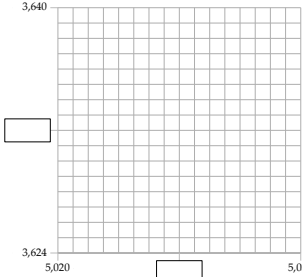
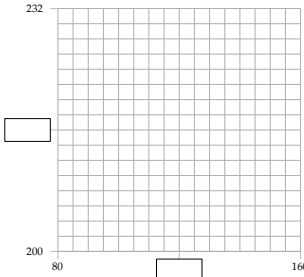
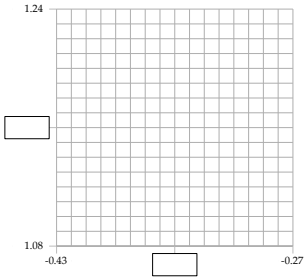
8) Find both intercepts: (a)  $4x + 3y = 24$

(b)  $y = (\frac{5}{8})x - 20$

9) Give the equations for the vertical and horizontal lines that cross at (5, 7).

10) Show that  $x + y = 0$  and  $x - y = 0$  intersect perpendicularly at the origin.

11) Determine the x-scale and y-scale then graph each equation in its proscribed region.

<p>(a) <math>y = 1.625x - 4533</math>  <math>[5020, 5036] \times [3624, 3640]</math></p> 	<p>(b) <math>y = -0.625x + 280</math>  <math>[80, 160] \times [200, 232]</math></p> 	<p>(c) <math>-1200x + 1300y = 1884</math>  <math>[-0.43, -0.27] \times [1.08, 1.24]</math></p> 
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Determine equations for the following cases. Write your answers in *Slope-Intercept* form.

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12) A line passing through (2.4, 1.9) & (-5.6, 9.5).

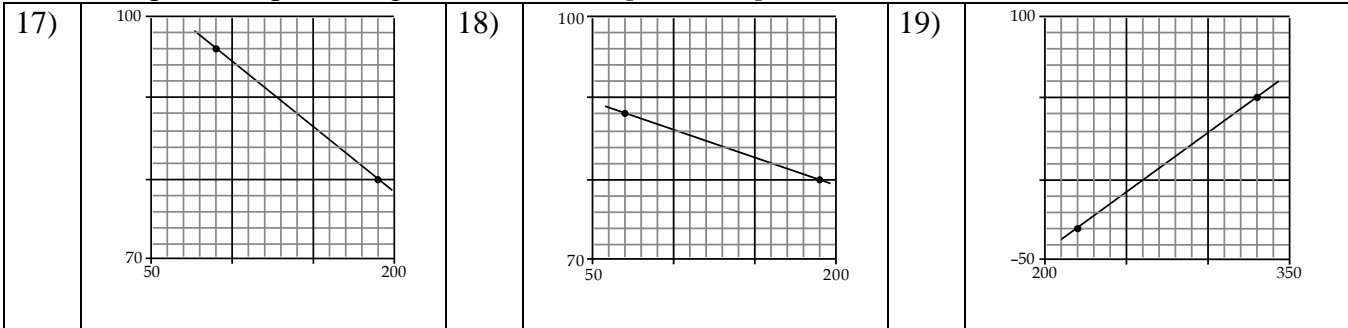
13) A line passing through (236, 519) & (-504, 911).

14) A line crossing the x-axis at -12 and the y-axis at -6.

15) A line passing through (-10, 12) and parallel to  $8x - 12y = 15$ .

16) A line passing through (-6, 2) and perpendicular to  $y = (\frac{2}{3})x + 6$ .

Find the equation representing these lines in *Slope Intercept* form.



Bonus

Give the equations of the lines that would make your initials in **BLCK** letters. Enter them into your calculator, graph and show me the result.