

Math 10D
Unit 0 – Grade 9 Skills Review
Lesson 2: Solving Equations and Graphing Lines

Name: _____

Date: _____

Equations – Solving For X

Solve the following equations:

a.) $5x - 4 = 11$

b.) $3x - 1 = x + 13$

c.) $\frac{x + 4}{8} = 7$

d.) $\frac{x}{5} + 3 = -2$

How to Clear Equations with Fractions

$$\frac{x}{4} + \frac{5}{2} = \frac{x}{2} - \frac{x}{3}$$

Solve for x:

$$\frac{2x}{7} - \frac{3x}{2} = \frac{x}{14} - 36$$

Graphing Review

Graphing Using Intercepts

1.) Identify the x and the y-intercepts:

Line A

⇒ X-intercept:

⇒ Y-intercept:

Line B

⇒ X-intercept:

⇒ Y-intercept:

Line C

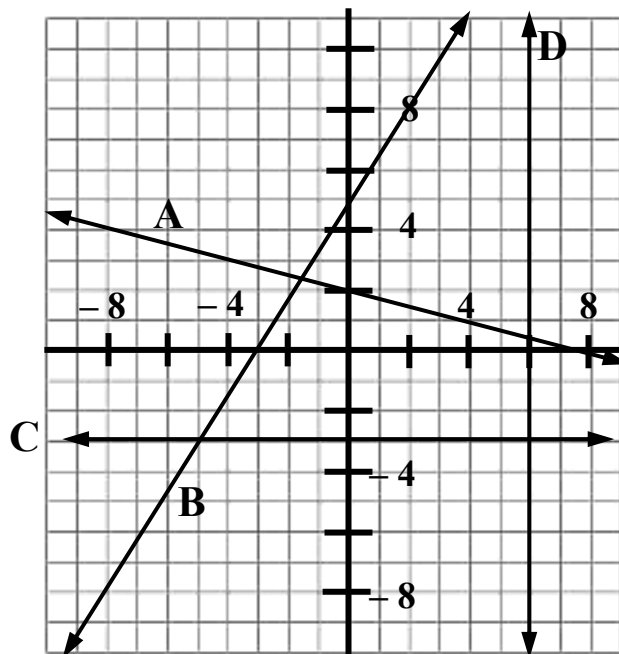
⇒ X-intercept:

⇒ Y-intercept:

Line D

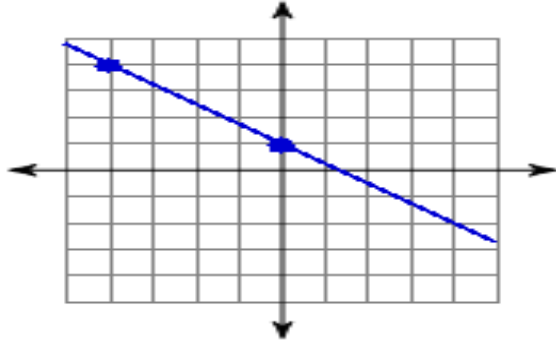
⇒ X-intercept:

⇒ Y-intercept:

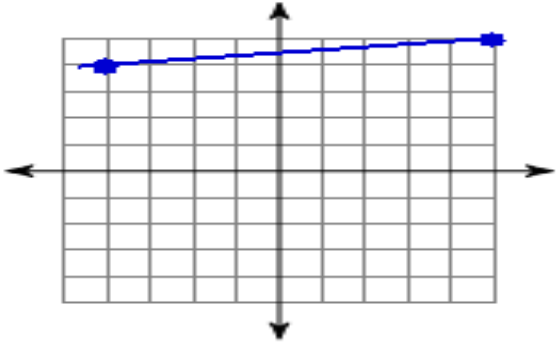


3.) Find the **slope** of the following lines

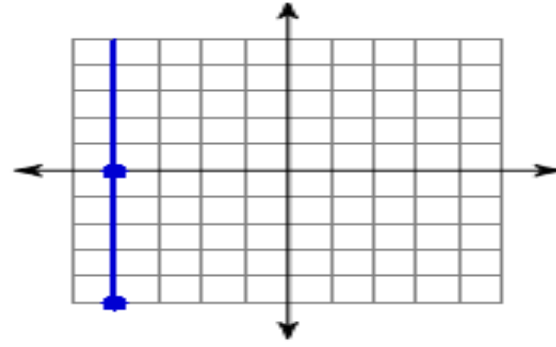
1)



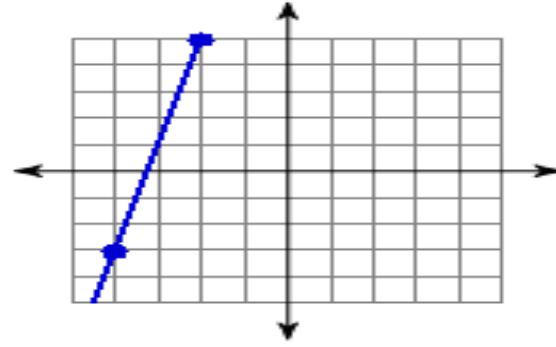
2)



3)



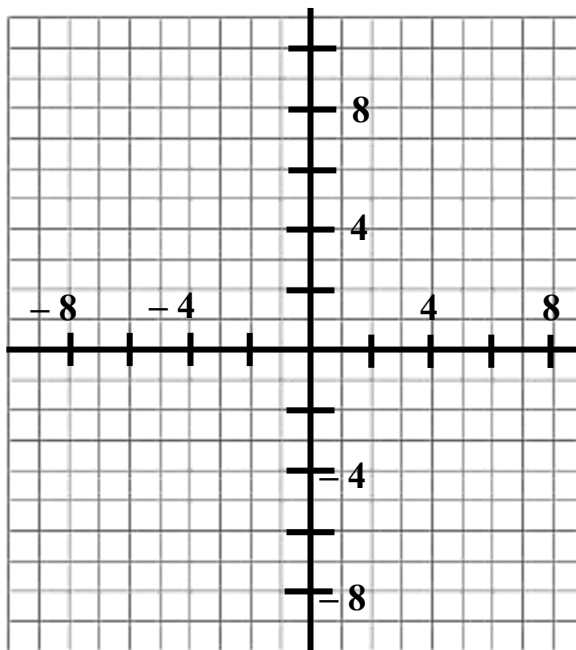
4)



SLOPE-POINT FORM EQUATIONS: $y = mx + b$

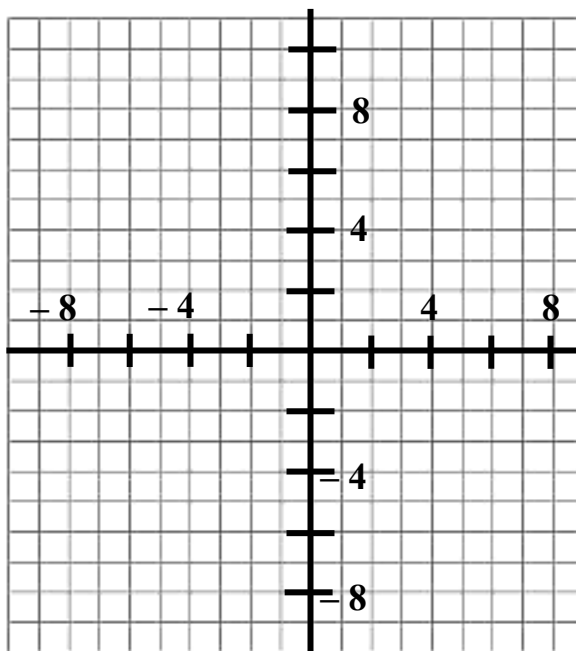
4.) Graph $y = \frac{1}{2}x + 3$ on the Cartesian Plane:

$$y = \frac{1}{2}x + 3$$



5.) Graph the following lines on the Cartesian Plane:

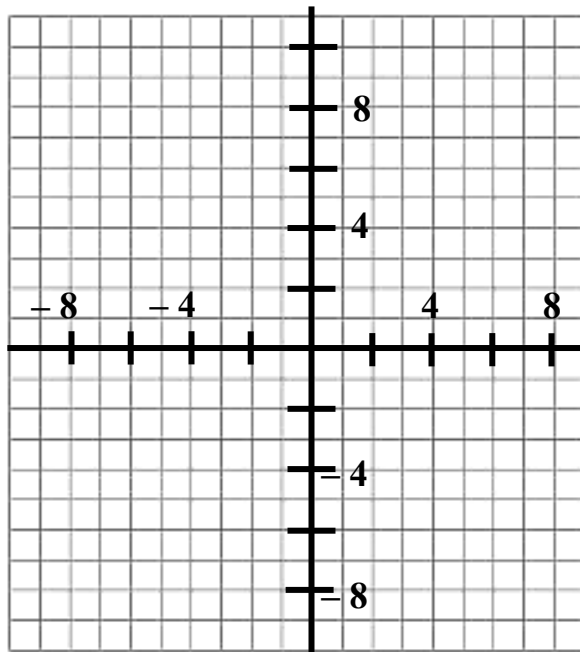
a.) $y = \frac{3}{2}x - 4$



b.) $y = -2x + 3$

6.) Graph the following equations on the Cartesian Plane:

a.) $y = -\frac{4}{3}x - \frac{1}{2}$



b.) $4x + 7y - 14 = 0$