First Name:_____   Last Name:_____

L37 – 7.2 – Formative Quiz– General Form

Use the following information to answer Q1-Q3:

$$2x - 3y + 12 = 0$$

Q1: Find the x-intercept. Show all your work.

x-int (Set y=0)

$2x - 3(0) + 12 = 0$ $2x = -12$

$2x + 12 = 0$ $\div 2 \qquad \div 2$

$-12 \quad -12$ $\boxed{x = -6}$

$2x = -12$

Q2: Find the y-intercept. Show all work.

y-int (Set x=0)

$2(0) - 3y + 12 = 0$ $-3y = -12$

$-3y + 12 = 0$ $\div(-3) \quad \div(-3)$

$-12 \quad -12$ $\boxed{y = 4}$
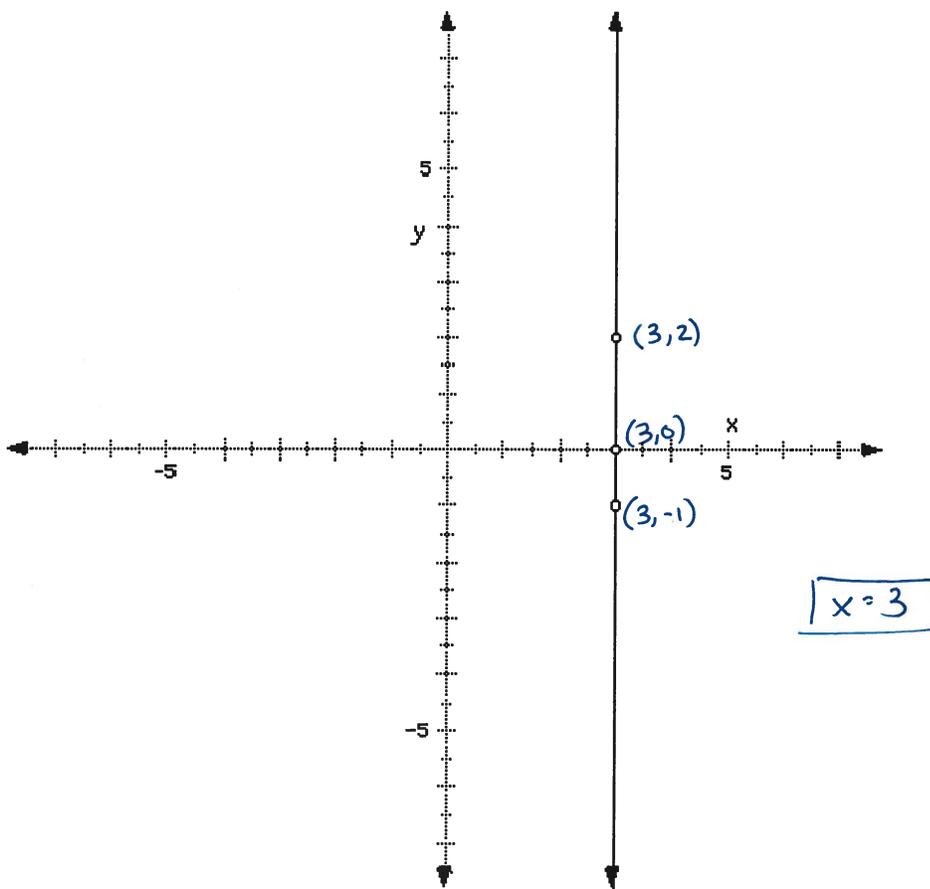
$-3y = -12$

Q3: Graph the line.
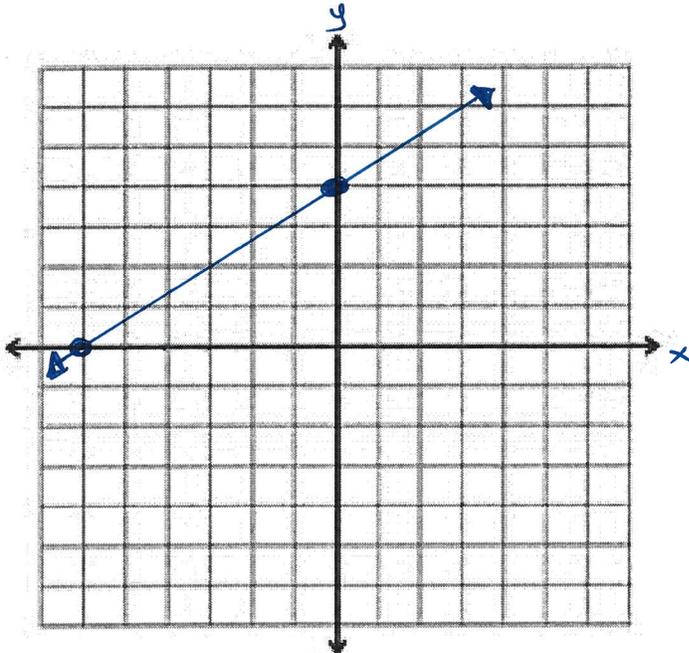
Q4: Write the following equation in General Form $(Ax + By + C = 0)$

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

$+\frac{2}{3}x \quad +\frac{2}{3}x$

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

$\quad -3 \quad -3$

$\frac{2}{3}x + 1y - 3 = 0$

$\frac{2}{3}x + 1y - 3 = 0$

$\times 3 \quad \times 3 \quad \times 3 \quad \times 3$

$\boxed{2x + 3y - 9 = 0}$

Q5: Write the equation of the vertical line in General Form

$(3,2)$

$(3,0)$

$(3,-1)$

$\boxed{x = 3}$

MARKING

Beginning	0 – 2
Progressing	2.5 – 3
Competent	3.5 – 4.5
Exemplary	4.5 – 5