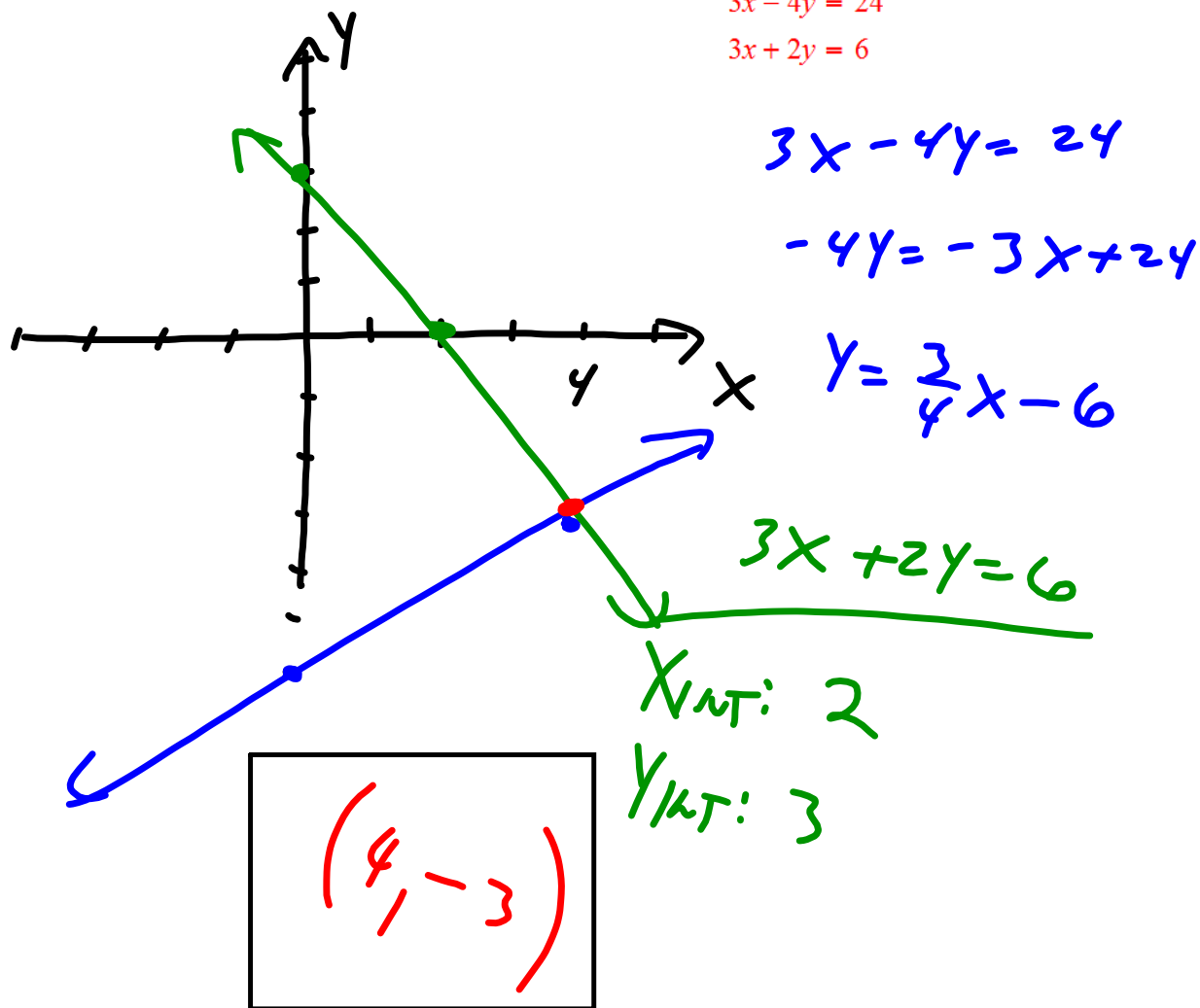


1) Section 3.1 (6 points) Solve the following system of equations by using the **Graphing Method**.

$$3x - 4y = 24$$

$$3x + 2y = 6$$



Algebra II Reg Review Sheet Chapters Systems of Equations.notebook

2) Section 3.2 (6 points) Solve the following system of equations by using the ~~Method~~ of Substitution.

$$\begin{aligned}6x - 8y &= 6 \\ -3x + 2y &= -2\end{aligned}$$

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

$$2y = 3x - 2$$

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

$$6x - 8y = 6$$

$$6x - 8\left(\frac{3}{2}x - 1\right) = 6$$

$$6x - 12x + 8 = 6$$

$$-6x = -2$$

$$x = \frac{1}{3}$$

$$y = \frac{3}{2}\left(\frac{1}{3}\right) - 1$$

$$y = \frac{1}{2} - 1 = -\frac{1}{2}$$

$$\left(\frac{1}{3}, -\frac{1}{2}\right)$$

Following system of equations by using the **Method of Elimination**

$$\begin{aligned} 3x - 2y &= 22 \\ -5x + 6y &= -36 \end{aligned}$$

$$\begin{aligned} 9x - 6y &= 66 \\ -5x + 6y &= -36 \end{aligned}$$

$$4x = 30$$

$$x = \frac{30}{4}$$

$$x = \frac{15}{2}$$

$$\begin{aligned} 15x - 10y &= 110 \\ -15x + 18y &= -108 \end{aligned}$$

$$8y = 2$$

$$y = \frac{2}{8}$$

$$y = \frac{1}{4}$$

$$\left(\frac{15}{2}, \frac{1}{4} \right)$$