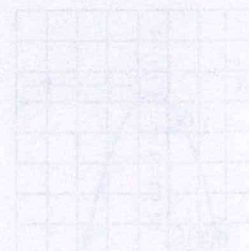


Bellwork Alg 2 Tuesday, November 19, 2019

1. Solve this Quadratic Equation by graphing. Round to the nearest hundredth.

$$4x^2 + 23x = 21$$



2. Solve this Quadratic Equation by factoring.

$$2x^2 - 13x = 24$$

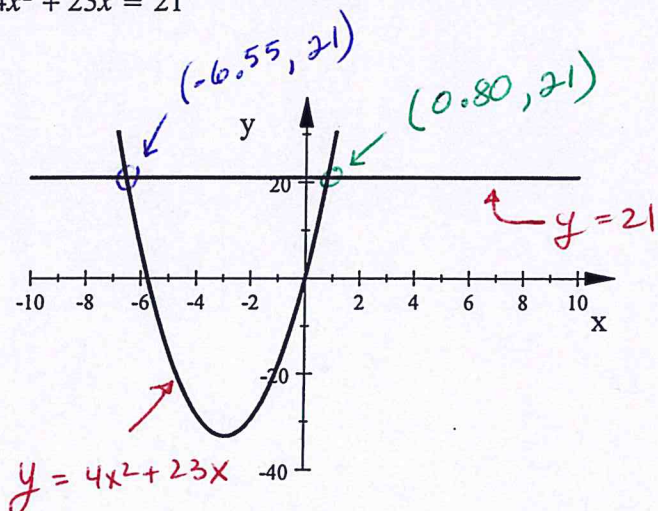
3. Solve this Quadratic Equation using the Quadratic Formula.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$3x^2 + 8x - 13 = 0$$

1. Solve this Quadratic Equation by graphing. Round to the nearest hundredth.

$$4x^2 + 23x = 21$$



Solutions are $x = -6.55, 0.80$

2. Solve this Quadratic Equation by factoring.

$$2x^2 - 13x = 24$$

$$-24 \quad -24$$

$$2x^2 - 13x - 24 = 0$$

NO GCF

$$\begin{array}{c} \begin{array}{c} -48 \\ -16 \end{array} \begin{array}{c} +3 \\ -13 \end{array} \end{array} \Rightarrow \begin{array}{c} \begin{array}{cc} x & -8 \\ 2x^2 & -16x \\ 3x & -24 \end{array} \end{array}$$

$$(x-8)(2x+3) = 0$$

$$x = -\frac{3}{2}, 8$$

3. Solve this Quadratic Equation using the Quadratic Formula.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$3x^2 + 8x - 13 = 0$$

$$a = 3$$

$$b = 8$$

$$c = -13$$

$$b^2 - 4ac = 8^2 - 4(3)(-13) = 220$$

$$x = \frac{-8 \pm \sqrt{220}}{6}$$

$$= 1.14, -3.81$$