

3/11/2020

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

4)

$$14x^2 + 3x = 11$$

$$14x^2 + 3x - 11 = 0$$

$$x = \frac{-3 \pm \sqrt{(3)^2 - 4(14)(-11)}}{2(14)}$$

~~$$x = \frac{-3 \pm \sqrt{153}}{28}$$~~

$$x = \frac{11}{14}$$

~~$$x = 0.79$$~~

$$x = 0.79$$

$$x = \frac{-3 - \sqrt{(3)^2 - 4(14)(-11)}}{2(14)}$$

$$x = -1.00$$

5)

$$\textcircled{1} \quad 5x + 3y = 39$$

$$\textcircled{2} \quad 8x - 2y = 42$$

$$\textcircled{3} \quad 10x + 6y = 78$$

$$\textcircled{4} \quad 24x - 6y = 126$$

$$\begin{cases} \times 2 \\ \times 3 \end{cases}$$

$$\textcircled{4} - \textcircled{2}$$

$$24x - 10x - 6y + 6y = 126 - 78$$

$$14x = 48$$

$$x = \frac{48}{14}$$

$$x = 3.428571$$

$$8(3.428571) - 2y = 42$$

$$27.428568 - 2y = 42$$

$$-2y = 42 - 27.428568$$

$$-2y = 14.571432$$

$$-y = \frac{4.571432}{-2}$$

$$-y = -2.285716$$

$$y = 2.285716$$