

August 31, 2015

Complete the Square

$$\frac{-9x}{-9} - \frac{2x}{-9} + \frac{5}{-9} = 0$$

$$x^2 + \frac{2}{9}x - \frac{5}{9} = 0$$

$$x^2 + \frac{2}{9}x = \frac{5}{9}$$

a.) $\frac{2}{9} \cdot \frac{1}{2} = \frac{1}{9}$

b.) $(\frac{1}{9})^2 = \frac{1}{81}$ add to both sides

$$x^2 + \frac{2}{9}x + \frac{1}{81} = \frac{5}{9} + \frac{1}{81} = \frac{45+1}{81} = \frac{46}{81}$$

$$\sqrt{(x + \frac{1}{9})^2} = \pm \sqrt{\frac{46}{81}}$$

$$x + \frac{1}{9} = \pm \frac{\sqrt{46}}{9}$$

$$x = -\frac{1}{9} \pm \frac{\sqrt{46}}{9}$$

Aug 31-10:59 AM

$$5x^2 - 7x + 1 = 8$$

Aug 31-11:29 AM