

Quadratic Formula

Solve $3x^2 + 5x - 7 = 0$
giving your answer to
2 significant figures.

$$a = 3$$

$$b = 5$$

$$c = -7$$

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

$$x = \frac{-5 \pm \sqrt{5^2 - 4 \times 3 \times (-7)}}{6}$$

$$x = \frac{-5 \pm \sqrt{109}}{6}$$

$$x = 0.9067$$

$$x = -2.57338$$

$$\underline{\underline{x = 0.91}}$$

$$\underline{\underline{x = -2.6}}$$