

$$X = \frac{-(-5) \pm \sqrt{(-5)^2 - 4(2)(-6)}}{2(2)}$$

$$= \frac{5 \pm \sqrt{25 + 48}}{4}$$

$$= \frac{5 \pm \sqrt{73}}{4}$$

$$= \frac{5 \pm 8.544}{4}$$

$$\text{So } = \frac{5 + 8.544}{4} \quad \text{or} \quad = \frac{5 - 8.544}{4}$$

$$= \frac{13.544}{4} \quad = \frac{-3.544}{4}$$

$$= 3.386 \quad = -0.886$$

$$= 3.39 \text{ correct to 2dp} \quad = -0.89 \text{ correct to 2dp}$$