

(C1-2.5a) Name:

### Homework Questions 5 – Quadratic Formula

Solve the following quadratic equations using the quadratic formula  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$  leave your answer in surd form.

1.  $x^2 + 5x - 17 = 0$

2.  $7x^2 - x - 4 = 0$

$$\frac{-5 \pm \sqrt{93}}{2}$$

$$\frac{1 \pm \sqrt{113}}{14}$$

3.  $2x^2 + 4x - 4 = 0$

4.  $5x^2 = x + 2$

$$-1 \pm \sqrt{3}$$

$$\frac{1 \pm \sqrt{41}}{10}$$

5.  $3x^2 + 4x = 6$

$$\frac{-2 \pm \sqrt{22}}{3}$$