Quadratic Formulae Home Study $x = \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ Name: _____

Solve these quadratic equations using the quadratic formula, giving answers to 2 significant figures.

1. $2x^2 + 5x + 1 = 0$ $a = 2$ $b = 5$ $c = 1$ $$x = \frac{-5 \pm \sqrt{5^2 - 4 \times 2 \times 1}}{4}$$ $$x = \frac{-5 \pm \sqrt{17}}{4}$$ $x = -0 \cdot 2192\ldots$ or $-2 \cdot 280\ldots$ $x = \underline{\underline{-0 \cdot 22}}$ $x = \underline{\underline{-2 \cdot 3}}$	**2.** $3x^2 + 7x + 3 = 0$	**3.** $2x^2 + 3x - 1 = 0$
4. $x^2 + 5x - 2 = 0$	**5.** $2x^2 + 8x + 5 = 0$	**6.** $4x^2 + 2x - 9 = 0$
7. $3x^2 + 9x + 4 = 0$	**8.** $5x^2 - 2x - 2 = 0$	**9.** $2x^2 - 5x + 1 = 0$
10. $3x^2 - 6x + 2 = 0$	**11.** $2x^2 + 3x - 6 = 0$	**12.** $4x^2 + 3x - 2 = 0$