**Solving Quadratics Using the Formula**

Solve these quadratic equations, giving your answers to 2 decimal places.

(a) $x^{2}+5x+1=0$

(b) $x^{2}-5x+1=0$

(c) $2x^{2}+5x+1=0$

(d) $2x^{2}-7x-6=0$

(e) $4x^{2}+x-6=0$

(f) $4x^{2}+9x-2=0$

Solve these quadratic equations, giving your answers to 2 decimal places.

(a) $2x^{2}=5x+6$

(b) $x^{2}+7x=2$

(c) $5x^{2}=11x+3$

(d) $2x^{2}=3-5x$

Solve these quadratic equations, leaving your answers in surd form.

(a) $4x^{2}-9x+4=0$

(b) $7x^{2}+3x=2$

(c) $x^{2}+3x-6=0$

(d) $7x^{2}+12x+2=0$

(a) The answers to a quadratic equation are $x=\frac{3\pm \sqrt{37}}{2}$.

What is the quadratic equation?

(b) Solve the equation

$$x+\frac{3}{x}=7$$

Give your answers correct to 2 decimal places.

(c) What is special about the solutions to the equation

$$4x^{2}-4x+1=0$$

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