**Solving Quadratics by Factorising**

Solve these quadratic equations.

(a) $\left(x-4\right)\left(x-1\right)=0$

(b) $\left(x-4\right)\left(x+1\right)=0$

(c) $\left(x+4\right)\left(x+1\right)=0$

(d) $\left(x+4\right)\left(x-6\right)=0$

Solve these quadratic equations.

(a) $x^{2}+5x+4=0$

(b) $x^{2}+5x+6=0$

(c) $x^{2}+7x+6=0$

(d) $x^{2}+10x+16=0$

(e) $x^{2}+10x+21=0$

Solve these quadratic equations.

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

(b) $x^{2}-6x+8=0$

(c) $x^{2}-9x+8=0$

(d) $x^{2}-9x+18=0$

(e) $x^{2}-11x+18=0$

Solve these quadratic equations.

(a) $x^{2}+3x-4=0$

(b) $x^{2}+5x-6=0$

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

(d) $x^{2}-2x-8=0$

(e) $x^{2}-6x-16=0$

Solve these quadratic equations.

(a) $x^{2}=24+2x$

(b) $30+x^{2}=13x$

(c) $x^{2}+9=6x$

(d) $44=x^{2}-7x$

(e) $x^{2}-x=72$

(f) $\left(x+1\right)\left(x-2\right)=4$

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