

**SOLVING EQUATIONS** Solve the equation by factoring.

- P615
33.  $2x^2 - 9x - 35 = 0$     34.  $7x^2 - 10x + 3 = 0$     35.  $3x^2 + 34x + 11 = 0$   
 36.  $4x^2 - 21x + 5 = 0$     37.  $2x^2 - 17x - 19 = 0$     38.  $5x^2 - 3x - 26 = 0$   
 39.  $2x^2 + 19x = -24$     40.  $4x^2 - 8x = -3$     41.  $6x^2 - 23x = 18$   
 42.  $8x^2 - 34x + 24 = -11$     43.  $10x^2 + x - 10 = -2x + 8$   
 44.  $28x^2 - 9x - 1 = -4x + 2$     45.  $24x^2 + 39x + 15 = 0$   
 46.  $30x^2 - 80x + 50 = 7x - 4$     47.  $18x^2 - 30x - 100 = 67x + 30$

**SOLVING EQUATIONS** Use factoring to solve the equation. Use a graphing calculator to check your solution if you wish.

- P623
51.  $2x^2 - 72 = 0$     52.  $3x^2 - 24x + 48 = 0$     53.  $25x^2 - 4 = 0$   
 54.  $\frac{1}{5}x^2 - 2x + 5 = 0$     55.  $27 - 12x^2 = 0$     56.  $50x^2 + 60x + 18 = 0$   
 57.  $\frac{1}{3}x^2 - 6x + 27 = 0$     58.  $90x^2 - 120x + 40 = 0$   
 59.  $x^2 - \frac{5}{3}x + \frac{25}{36} = 0$     60.  $112x^2 - 252 = 0$   
 61.  $-16x^2 + 56x - 49 = 0$     62.  $-\frac{4}{5}x^2 - \frac{4}{5}x - \frac{1}{5} = 0$

**FACTORISING EXPRESSIONS** Factor the expression completely.

- P629
21.  $24x^3 + 18x^2$     22.  $-3w^4 + 21w^3$   
 23.  $2y^3 - 10y^2 - 12y$     24.  $5s^3 + 30s^2 + 40s$   
 25.  $-7m^3 + 28m^2 - 21m$     26.  $2d^4 + 2d^3 - 60d^2$   
 27.  $4t^3 - 144t$     28.  $-12z^4 + 3z^2$   
 29.  $c^4 + c^3 - 12c - 12$     30.  $x^3 - 3x^2 + x - 3$   
 31.  $6b^4 + 5b^3 - 24b - 20$     32.  $3y^3 - y^2 - 21y + 7$   
 33.  $a^3 + 6a^2 - 4a - 24$     34.  $t^3 - t^2 - 16t + 16$   
 35.  $3m^3 - 15m^2 - 6m + 30$     36.  $7n^5 + 7n^4 - 3n^2 - 6n - 3$