

1. Factor the following expressions and check your answers.

- (a)  $x^2 + 2x - 35$
- (b)  $x^2 - 11x + 24$
- (c)  $x^2 - 7x - 18$
- (d)  $x^2 + 12x + 27$
- (e)  $x^2 - 49$
- (f)  $4x^2 - 36$
- (g)  $16 - 9x^2y^2$
- (h)  $8x^2 - 18$
- (i)  $5x^2 - 25x - 70$
- (j)  $x^3 - 2x^2 - 8x$
- (k)  $2x^2 + 16x + 30$
- (l)  $4x^2 - 19x + 12$
- (m)  $4x^2 - 20x + 25$
- (n)  $x^2 + 18x + 81$
- (o)  $6x^2 + xy - 12y^2$
- (p)  $4 - (x + 1)^2$
- (q)  $18x^2 - 60x + 50$
- (r)  $(x^2 - 1)^2 - 9$
- (s)  $3x^4 + 18x^2 - 21$
- (t)  $2x^7 + 7x^4 - 15x$
- (u)  $4x^2 - 12xy + 9y^2$
- (v)  $x^4 - 9x^2y - 10y^2$