Factorization

Solve each quadratic equation using factorization.

1) $v^2 + 5v + 6 = 0$

2) $g^2 - 3g = 4$

3) $w^2 + 4w = 0$

4) $s^2 - 8s + 12 = 0$

5) $x^2 + 2x - 35 = 0$

6) $r(r + 2) = 99$

7) $k(k - 4) = -3$

8) $t^2 + 2\sqrt{2}\,t + 2 = 0$

9) $m^2 - 81 = 0$

10) $h^2 - 17h + 70 = 0$

Answer key

Factorization

ES1

Solve each quadratic equation using factorization.

1) $v^2 + 5v + 6 = 0$

v = –3 ; v = –2

2) $g^2 – 3g = 4$

g = –1 ; g = 4

3) $w^2 + 4w = 0$

w = –4 ; w = 0

4) $s^2 – 8s + 12 = 0$

s = 2 ; s = 6

5) $x^2 + 2x – 35 = 0$

x = –7 ; x = 5

6) $r(r + 2) = 99$

r = –11 ; r = 9

7) $k(k – 4) = –3$

k = 1 ; k = 3

8) $t^2 + 2\sqrt{2}\,t + 2 = 0$

t = –$\sqrt{2}$

9) $m^2 – 81 = 0$

m = ±9

10) $h^2 – 17h + 70 = 0$

h = 7 ; h = 10