Solving Quadratic Equations

Solve each quadratic equation by factoring.

1) $m^2 + 3m - 40 = 0$ 2) $v(v + 21) = -108$

3) $k^2 + 14k + 49 = 0$ 4) $y^2 - 4y - 5 = 0$

5) $t^2 - 70 = -3m$ 6) $x^2 + 17 - 18 = 0$

7) $p^2 - 10p + 24 = 0$ 8) $n^2 - 5n + 6 = 0$

Solving Quadratic Equations

Answer key

SQ:06

Solve each quadratic equation by factoring.

1) $m^2 + 3m - 40 = 0$

2) $v(v + 21) = -108$

m = 5 and m = –8

v = –12 and v = –9

3) $k^2 + 14k + 49 = 0$

4) $y^2 - 4y - 5 = 0$

k = –7 and k = –7

y = –1 and y = 5

5) $t^2 - 70 = -3m$

6) $x^2 + 17 - 18 = 0$

t = –10 and t = 7

x = 1 and x = –18

7) $p^2 - 10p + 24 = 0$

8) $n^2 - 5n + 6 = 0$

p = 6 and p = 4

n = 2 and n = 3