

Name :

Quadratic Equation | Factoring

MS3

Solve each quadratic equation using factoring.

1) $7t^2 - 16 = -24t$

2) $m^2 = -7 + 5m$

3) $h^2 + 10h = -12$

5) $6q^2 - 10q = 5 = 0$

7) $16z^2 - 9 = -11z$

9) $8n^2 + 18n + 9 = 0$

10) $v^2 - 64 = 0$

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Answer key

MS3

Quadratic Equation | Factoring

Solve each quadratic equation using factoring.

1) $7t^2 - 16 = -24t$

$$t = -4; t = \frac{4}{7}$$

2) $m^2 = -7 + 5m$

$$m = \frac{5 \pm \sqrt{3}i}{2}$$

3) $h^2 + 10h = -12$

$$h = -4 \pm 2\sqrt{10}$$

5) $6q^2 - 10q = 0$

$$q = -\frac{1}{3}; q = \frac{5}{9}$$

7) $16z^2 - 9 = -11z$

$$z = -2; z = \frac{1}{8}$$

$$x = -3; x = -\frac{5}{2}$$

9) $8n^2 + 18n + 9 = 0$

$$n = -\frac{3}{4}; n = -\frac{3}{2}$$

10) $v^2 - 64 = 0$

$$v = \pm 8$$

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