



Forming a Quadratic Equations

Name _____

Score _____

RQ:14

Form the quadratic equation by using the given roots.

1) $t = \pm 4$

2) $z = -1 ; z = -2$

3) $v = 3 ; v = 5$

4) $n = \pm \frac{3}{2}$

5) $x = -7 ; x = 4$

6) $m = \frac{2}{3} ; m = -\frac{1}{2}$

7) $g = 6 ; g = -8$

8) $y = \frac{3}{5} ; y = 3$



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Answer key

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Form the quadratic equation by using the given roots.

1) $t = \pm 4$

$$t^2 - 16 = 0$$

2) $z = -1 ; z = -2$

$$z^2 + 3z + 2 = 0$$

3) $v = 3 ; v = 5$

$$v^2 - 8v + 15 = 0$$

4) $n = \pm \frac{3}{2}$

$$4n^2 - 9 = 0$$

5) $x = -7 ; x = 4$

$$x^2 + 3x - 28 = 0$$

6) $m = \frac{2}{3} ; m = -\frac{1}{2}$

$$6m^2 - m - 2 = 0$$

7) $g = 6 ; g = -8$

$$g^2 + 2g - 48 = 0$$

8) $y = \frac{3}{5} ; y = 3$

$$5y^2 + 18y + 9 = 0$$