



Forming a Quadratic Equations

Name _____

Score _____

RQ:13

Form the quadratic equation by using the given roots.

1) $y = -2 ; y = 3$

2) $k = \pm 5$

3) $m = \frac{1}{2} ; m = \frac{1}{4}$

4) $x = 6 ; x = -4$

5) $t = -\frac{2}{5} ; t = -1$

6) $h = \pm 8$

7) $z = -7 ; z = -9$

8) $u = 1 ; u = \frac{1}{3}$



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Answer key

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Form the quadratic equation by using the given roots.

1) $y = -2 ; y = 3$

$$y^2 - y - 6 = 0$$

2) $k = \pm 5$

$$k^2 - 25 = 0$$

3) $m = \frac{1}{2} ; m = \frac{1}{4}$

$$8m^2 - 6m + 1 = 0$$

4) $x = 6 ; x = -4$

$$x^2 - 2x - 24 = 0$$

5) $t = -\frac{2}{5} ; t = -1$

$$5t^2 + 7t + 2 = 0$$

6) $h = \pm 8$

$$h^2 - 64 = 0$$

7) $z = -7 ; z = -9$

$$z^2 + 16z + 63 = 0$$

8) $u = 1 ; u = \frac{1}{3}$

$$3u^2 - 4u + 1 = 0$$