

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

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## Solve Quadratics by Taking the Square Root

Solve each equation by taking square roots.

1)  $y^2 - 3 = 215$

6)  $k^2 - 4 = -227$

2)  $7x^2 + 1 = 449$

7)  $s^2 + 7 = -33$

3)  $-7x^2 = 1008$

8)  $-8m^2 = 240$

4)  $8w^2 = 1872$

9)  $8y^2 = 200$

5)  $3k^2 - 5 = 49$

10)  $w^2 - 5 = 15$



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Solve each equation by taking square roots.

1)  $y^2 - 3 = 215$

$[\sqrt{218}, -\sqrt{218}]$

6)  $k^2 - 4 = -227$

$[i\sqrt{223}, -i\sqrt{223}]$

2)  $7x^2 + 1 = 449$

$[8, -8]$

7)  $s^2 + 7 = -33$

$[2i\sqrt{10}, -2i\sqrt{10}]$

3)  $-7x^2 = 1008$

$[12i, -12i]$

8)  $-8m^2 = 240$

$[i\sqrt{30}, -i\sqrt{30}]$

4)  $8w^2 = 1872$

$[3\sqrt{26}, -3\sqrt{26}]$

9)  $8y^2 = 200$

$[5, -5]$

5)  $3k^2 - 5 = 49$

$[3\sqrt{2}, -3\sqrt{2}]$

10)  $w^2 - 5 = 15$

$[2\sqrt{5}, -2\sqrt{5}]$

