

## Solving Quadratic Equations with Square Roots

Date\_\_\_\_\_ Period\_\_\_\_

**Solve each equation by taking square roots.**

1)  $k^2 = 76$

2)  $k^2 = 16$

3)  $x^2 = 21$

4)  $a^2 = 4$

5)  $x^2 + 8 = 28$

6)  $2n^2 = -144$

7)  $-6m^2 = -414$

8)  $7x^2 = -21$

9)  $m^2 + 7 = 88$

10)  $-5x^2 = -500$

11)  $-7n^2 = -448$

12)  $-2k^2 = -162$

13)  $x^2 - 5 = 73$

14)  $16n^2 = 49$

15)  $n^2 - 5 = -4$

16)  $n^2 + 8 = 80$

17)  $7v^2 + 1 = 29$

18)  $10n^2 + 2 = 292$

19)  $2m^2 + 10 = 210$

20)  $9n^2 + 10 = 91$

21)  $5n^2 - 7 = 488$

22)  $8n^2 - 6 = 306$

23)  $10n^2 - 10 = 470$

24)  $8n^2 - 4 = 532$

25)  $4r^2 + 1 = 325$

26)  $8b^2 - 7 = 193$

27)  $2k^2 - 2 = 144$

28)  $3 - 4x^2 = -85$

## Solving Quadratic Equations with Square Roots

Date \_\_\_\_\_ Period \_\_\_\_\_

**Solve each equation by taking square roots.**

1)  $k^2 = 76$



2)  $k^2 = 16$



3)  $x^2 = 21$



4)  $a^2 = 4$



5)  $x^2 + 8 = 28$



6)  $2n^2 = -144$



7)  $-6m^2 = -414$



8)  $7x^2 = -21$



9)  $m^2 + 7 = 88$



10)  $-5x^2 = -500$



11)  $-7n^2 = -448$



12)  $-2k^2 = -162$



13)  $x^2 - 5 = 73$



14)  $16n^2 = 49$



15)  $n^2 - 5 = -4$



16)  $n^2 + 8 = 80$



17)  $7v^2 + 1 = 29$



18)  $10n^2 + 2 = 292$



19)  $2m^2 + 10 = 210$



20)  $9n^2 + 10 = 91$



21)  $5n^2 - 7 = 488$



22)  $8n^2 - 6 = 306$



23)  $10n^2 - 10 = 470$



24)  $8n^2 - 4 = 532$



25)  $4r^2 + 1 = 325$



26)  $8b^2 - 7 = 193$



27)  $2k^2 - 2 = 144$



28)  $3 - 4x^2 = -85$

