

## Solving Quadratics by Taking the Square Root

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

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

1)  $3x^2 = -18$

2)  $16n^2 = 9$

3)  $-4n^2 = 24$

4)  $64x^2 = 9$

5)  $n^2 - 4 = 0$

6)  $x^2 + 4 = 5$

7)  $49v^2 = 36$

8)  $r^2 - 3 = 22$

9)  $b^2 = 4$

10)  $64n^2 = 49$

11)  $6x^2 - 7 = 323$

12)  $2n^2 + 7 = 25$

13)  $8n^2 + 5 = 573$

14)  $8n^2 - 10 = 278$

15)  $10x^2 + 9 = -92$

16)  $8x^2 + 13 = 2061$

17)  $6k^2 + 16 = 1456$

18)  $19x^2 - 7 = 2292$

19)  $13a^2 + 1 = 1873$

20)  $9a^2 - 1 = 8$

21)  $16x^2 - 1 = 120$

22)  $64n^2 - 10 = -1$

23)  $2x^2 + 1 = 129$

24)  $4b^2 - 8 = 188$

25)  $6k^2 + 9 = 585$