

NAME \_\_\_\_\_

**Module 13** Solving Quadratic Equations  
of One Variable  
**Lesson 2** Solving Quadratic Equations  
by Evaluating Square Roots



**additional  
practice**

Solve by evaluating square roots.

1.  $x^2 = 4$

**{2, -2}**

3.  $x^2 = 25$

**{5, -5}**

5.  $-3x^2 = 48$

**∅**

7.  $2x^2 = 162$

**{9, -9}**

9.  $3x^2 = 63$

**{ $\sqrt{21}$ ,  $-\sqrt{21}$ }**

11.  $4x^2 + 3 = 7$

**{1, -1}**

13.  $2x^2 - 6 = -38$

**∅**

15.  $(x + 2)^2 = 25$

**{3, -7}**

17.  $(x + 5)^2 = 100$

**{5, -15}**

19.  $4(x - 5)^2 + 3 = 19$

**{7, 3}**

21.  $-3(x - 7)^2 - 6 = -144$

**{13, 1}**

2.  $x^2 = 64$

**{8, -8}**

4.  $x^2 = 256$

**{16, -16}**

6.  $5x^2 = 20$

**{2, -2}**

8.  $-4x^2 = -144$

**{6, -6}**

10.  $4x^2 = 148$

**{ $\sqrt{37}$ ,  $-\sqrt{37}$ }**

12.  $3x^2 - 4 = 188$

**{8, -8}**

14.  $2x^2 + 3 = 165$

**{9, -9}**

16.  $(x - 1)^2 = 1$

**{2, 0}**

18.  $(x - 6)^2 = 289$

**{23, -11}**

20.  $-2(x + 4)^2 + 1 = 51$

**∅**

22.  $4(x - 5)^2 - 8 = 28$

**{8, 2}**

23.  $-2(x + 1)^2 - 5 = -103$

**{6, -8}**

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25.  $4(x + 1)^2 - 3 = 253$

**{7, -9}**

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27.  $2(x - 3)^2 - 6 = 44$

**{8, -2}**

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24.  $-6(x + 3)^2 + 7 = -47$

**{0, -6}**

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26.  $-1(x + 3)^2 - 4 = -53$

**{4, -10}**

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28.  $-2(x - 4)^2 + 7 = -331$

**{17, -9}**

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