**Task card 1** Solving Radical Equations

Solve: $\sqrt{(3x - 5)} = 1$

**Task card 2** Solving Radical Equations

Solve: $\sqrt{(x + 11)} = 3$

**Task card 3** Solving Radical Equations

Solve: $\sqrt{(2x + 3)} + 1 = 4$

**Task card 4** Solving Radical Equations

Solve: $\sqrt{(3x + 25)} = 4$

**Task card 5** Solving Radical Equations

Solve: $\sqrt{(3x + 13)} = 2$

**Task card 6** Solving Radical Equations

Solve: $\sqrt{(x + 10)} = 3$

**Task card 7** Solving Radical Equations

Solve: $\sqrt{(3x - 29)} - 6 = -5$

**Task card 8** Solving Radical Equations

Solve: $\sqrt{(x + 29)} = 6$

**Task card 9** Solving Radical Equations

Solve: $\sqrt{(2x + 22)} = 4$

**Task card 10** Solving Radical Equations

Solve: $\sqrt{(3x - 14)} - 1 = 3$

**Task card 11** Solving Radical Equations

Solve: $\sqrt[3]{(3x + 36)} = 3$

**Task card 12** Solving Radical Equations

Solve: $\sqrt{(2x + 38)} - 1 = 5$

**Task card 13** Solving Radical Equations

Solve: $\sqrt{(x + 51)} = 7$

**Task card 14** Solving Radical Equations

Solve: $\sqrt{(3x + 6)} - 5 = -11$

**Task card 15** Solving Radical Equations

Solve: $\sqrt{(3x + 15)} - 5 = -2$

**Task card 16** Solving Radical Equations

Solve: $\sqrt[3]{(2x - 18)} = 0$

**Task card 17** Solving Radical Equations

Solve: $3\sqrt{(3x + 25)} = 15$

**Task card 18** Solving Radical Equations

Solve: $\sqrt[3]{(3x + 30)} = 3$

**Task card 19** Solving Radical Equations

Solve: $\sqrt{(x - 5)} = x - 5$

**Task card 20** Solving Radical Equations

Solve: $4\sqrt{(3x - 11)} = 20$

**Task card 21** Solving Radical Equations

Solve: $\sqrt{(x + 19)} = x - 1$

**Task card 22** Solving Radical Equations

Solve: $\sqrt{(3x + 3)} - 7 = -10$

**Task card 23** Solving Radical Equations

Solve: $\sqrt[3]{(5x + 33)} = 2$

**Task card 24** Solving Radical Equations

Solve: $\sqrt{(x + 33)} = x + 3$

# Solving Radical Equations Task Cards

Recording sheet · Grade 11 · Solve for x and check your answers. If there are two solutions write x = a or x = b; if nothing works write no solution.

Name: _____ Date: _____

Scan to check your answers

| | | | |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 |

# Solving Radical Equations Task Cards: Answer Key

Grade 11 · Easy

The answers online

| | | |
|---|---|---|
| **1.** x = 2 | **2.** x = -2 | **3.** x = 3 |
| **4.** x = -3 | **5.** x = -3 | **6.** x = -1 |
| **7.** x = 10 | **8.** x = 7 | **9.** x = -3 |
| **10.** x = 10 | **11.** x = -3 | **12.** x = -1 |
| **13.** x = -2 | **14.** no solution | **15.** x = -2 |
| **16.** x = 9 | **17.** x = 0 | **18.** x = -1 |
| **19.** x = 6 or x = 5 | **20.** x = 12 | **21.** x = 6 |
| **22.** no solution | **23.** x = -5 | **24.** x = 3 |