

Radical Equations Example 5

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$$-2x + 7 = \sqrt{9x - 9}$$

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Squaring both sides

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$$(-2x + 7)^2 = (\sqrt{9x - 9})^2$$

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Squaring both sides [▶ See polynomial squared out](#)

$$4x^2 + (-28)x + 49 = (-2x + 7)^2 = (\sqrt{9x - 9})^2$$

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$$\text{LHS} = -2 \cdot 2 + 7$$

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$x = 7.25$ is not a solution