

7.3 *I can solve equations with radical expressions and expressions with rational exponents.*

Level 1:

Solve and check your solutions.

1. $5 = -3x^{\frac{1}{3}} - 1$

2. $\sqrt[3]{2x+1} = \sqrt[3]{5x+7}$

3. $81 = -3(2x-1)^{\frac{3}{4}}$

4. $\sqrt{3x-5} + 7 = 2$

5. $-2 = -6 + (3a-7)^{\frac{2}{3}}$

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Level 2/3:

4. Solve and check your solutions.

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

4. _____

5. Explain the two methods that you could use to tell if $x = 1$ a solution to the equation

$$\sqrt{2x - 1} + 5 = 4?$$

6. Solve $x - 3 = \sqrt{4x}$

Is either solution extraneous?

Explain: _____
