

Topic 11: Solve radical and rational equations
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Solve.

1. $2 + \sqrt{12 - 2x} = x$

2. $\sqrt[3]{2x + 3} - 3 = 0$

3. $\frac{1}{x - 2} = \frac{3}{x + 2} - \frac{6x}{x^2 - 4}$

4. $\frac{1}{2} + \frac{1}{x - 1} = 2$

5. $\sqrt{1 - x} = 5 + x$

Answers

1. $x = 4$

2. $x = 12$

3. No Solution

4. $x = \frac{5}{3}$

5. $x = -3$