

Radical Equations

Multiple Radicals

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

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

3. $\sqrt{3+x} + \sqrt{x} = \frac{6}{\sqrt{3+x}}$

4. $\sqrt{3x+1} + \sqrt{4x-3} = \sqrt{5x+4}$

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

6. $2\sqrt{x+2} - \sqrt{x-3} = \sqrt{x+9}$

7. $\sqrt{2x+5} - \sqrt{x-1} = \sqrt{x+2}$

8. $2\sqrt{x+2} - 3\sqrt{x-6} = \sqrt{4x-19}$

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

10. $\sqrt{x-3} + \sqrt{x+4} = \sqrt{4x+1}$

Answers

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1. $x = 8$

2. $x = 5$

3. $x = 1$

4. $x = 1$

5. $x = 0, x = \frac{4}{5}$

6. $x = 7$

7. $x = 2$

8. $x = 7$

9. $x = 2$

10. $x = 12$