# Reasoning with Equation and Inequalities - Worksheet 2

Solve the following equations:

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

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

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

4. $\sqrt{x+3} = \sqrt{x} + 3$

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

6. $\sqrt{x^2 + 5x - 2} = 2$

7. $\frac{\sqrt{3x}}{2} = \frac{9}{x}$

8. $\frac{\sqrt{x}+1}{x+1} = \frac{1}{2}$

9. $\sqrt{x} = \frac{\sqrt{x}+1}{\sqrt{x}}$ .

10. $\frac{x}{\sqrt{x}} = \sqrt{x}$

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