

**Rational Functions 3 – Solving Rational Equations
Homework #14**

Solve the following.

1) $\frac{3}{2} + \frac{1}{x} = 2$

2) $\frac{8}{x+2} + \frac{8}{2} = 5$

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

4) $\frac{10}{x^2-2x} + \frac{4}{x} = \frac{5}{x-2}$

5) $\frac{3}{4x} = \frac{5}{x+2}$

6) $\frac{x}{2x+7} = \frac{x-5}{x-1}$

7) $\frac{8(x-1)}{x^2-4} = \frac{4}{x-2}$

8) $\frac{x-2}{x+2} = \frac{3}{x}$

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

10) $\frac{2x}{x-3} = \frac{3x}{x^2-9} + 2$

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