

Rational Equations

Ve

Name: _____ Date: ____ Score: ____

Direction: Solve each rational equation. Check your answers for extraneous solutions. Show all your work in the space provided.

1)
$$\frac{3}{x+5} + \frac{4}{x-5} = 1$$

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

3)
$$\frac{x}{x-1} - \frac{9}{x+1} = \frac{1}{x-1}$$

4)
$$\frac{x-6}{x^2-4x-12} + \frac{2}{x+2} = \frac{1}{x-6}$$



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

$$x_1 = -3$$
 , $x_2 = 10$

$$x = 6$$

3)
$$\frac{x}{x-1} - \frac{9}{x+1} = \frac{1}{x-1}$$

4)
$$\frac{x-6}{x^2-4x-12} + \frac{2}{x+2} = \frac{1}{x-6}$$

$$x = 8$$

$$x = 10$$