



Rational Equations

Version 1

Name: _____

Date: _____

Score: _____

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

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

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

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

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



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

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

$$x = 1$$

$$2) \frac{4}{x-5} - 1 = \frac{5}{x-5}$$

$$x = 4$$

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

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

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

$$x_1 = -1, x_2 = 4$$