

1.6 Other Types of Equations and Applications
Honors Advanced Algebra with Trig

Rational Equation: an equation that has a rational expression for one or more terms.

*When solving rational equations always _____ first. Then multiple by the LCD

1. Solve each equation. Be sure to check for extraneous solutions!

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

c. $\frac{3x+2}{x-2} + \frac{1}{x} = \frac{-2}{x^2-2x}$

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

d. $\frac{-4x}{x-1} + \frac{4}{x+1} = \frac{-8}{x^2-1}$