

# Homework p. 593: 5-11 (odds), 15, 17, 20

**CROSS MULTIPLYING** Solve the equation by cross multiplying. Check for extraneous solutions.

5.  $\frac{9}{3x} = \frac{4}{x+2}$

7.  $\frac{8}{3x-2} = \frac{2}{x-1}$

9.  $\frac{x-3}{x+5} = \frac{x}{x+2}$

11.  $\frac{4(x-4)}{x^2+2x-8} = \frac{4}{x+4}$

**LEAST COMMON DENOMINATOR** Solve the equation by using the LCD. Check for extraneous solutions.

15.  $\frac{2}{3x} + \frac{1}{6} = \frac{4}{3x}$

17.  $\frac{1}{2x} + \frac{3}{x+7} = \frac{-1}{x}$

20.  $\frac{x+1}{x+6} + \frac{1}{x} = \frac{2x+1}{x+6}$