Linear Equations and Rational Equations

1. Solve:
(Similar to p.112 #2)

$$5x - 9 = 51$$

2. Solve:
(Similar to p.112 #10)

$$8(x-2) - 4 = x - 5(x+6)$$

3. Solve:
(Similar to p.112 #12)

$$8 - (3x+2) = 10 - 2x$$

4. Solve:
(Similar to p.112 #18)

$$\frac{x}{7} = \frac{x}{4} + 3$$

5. Solve:
(Similar to p.112 #24)

$$5x - \frac{2x}{3} = \frac{7x}{2} + \frac{1}{2}$$

6. Solve:
(Similar to p.112 #28)

$$2+\frac{x+1}{2}=\frac{x-5}{9}$$

7. Solve:
(Similar to p.112 #36)

$$\frac{5}{4x}-\frac{3}{2}=\frac{1}{9}-\frac{2}{3x}$$

8. Solve:
(Similar to p.112 #40)

$$\frac{5}{x-2}-1=\frac{-3}{x-2}$$

9. Solve:
(Similar to p.113 #48)

$$\frac{4}{x+3}+\frac{2}{x-3}=\frac{15}{x^2-9}$$

10. Solve:
(Similar to p.113 #50)

$$\frac{8}{x+4}-\frac{2}{x-3}=\frac{-5}{x^2+x-12}$$

11. Determine whether each equation is an identity, a conditional equation, or an inconsistent equation.
(Similar to p.113 #62-68)

$$3(x-2)=3x-6$$

12. Determine whether each equation is an identity, a conditional equation, or an inconsistent equation.
(Similar to p.113 #62-68)

$$\frac{5x}{x} = 5$$

13. Determine whether each equation is an identity, a conditional equation, or an inconsistent equation.
(Similar to p.113 #62-68)

$$6x + 3x = 15x$$

14. Determine whether each equation is an identity, a conditional equation, or an inconsistent equation.
(Similar to p.113 #62-68)

$$7x - 3 = 7x - 5$$