Name: **Date:**

Course 3 Quiz: 3.1 Solve Linear Equations with One Variable

Direction: Solve the equation for X

1. $3(4x - 1) - 7x = 17$

2. $7(x + 5) - 3(2x + 3) = 33.8$

3. $4(x + 2) - 2(x - 4) = 32$

4. $0.6(1 - x) + 0.2(x - 5) = 10$

5. $\dfrac{7x}{2} - \dfrac{1 - x}{2} = 4$

6. $\dfrac{2x}{3} - \dfrac{2 + x}{3} = -4$

7. $\dfrac{5(x + 2)}{3} - \dfrac{x - 1}{3} = 1$

8. $5x - 11 = 12x + 10$

Write each repeating decimal as a fraction using linear equations

9. $0.\overline{2}$

10. $0.8\overline{3}$

Extra Credit

Write the decimal $0.1\overline{6}$ as a fraction