

Name: \_\_\_\_\_

Monday Homework

Solving Linear Equation Review #1-18

**Solve each linear equation. Show your work.**

1.  $2x + 3(x - 4) = 4(2x + 3)$

2.  $3x + 0.5(10x - 6) = 21$

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

4.  $8 - 3(x + 2) = 2(4 - 3x) - 4.5$

5.  $0.8(5 + 5x) + 4x = 20$

6.  $7(x + 5) - 3(2x + 3) = 33.8$

7.  $0.7(3x - 5) + 3.9x = 14.5$

8.  $\frac{1}{2}(6x - 8) = \frac{7}{5}(x - 5) - \frac{1}{5}$

9.  $\frac{x - 4}{10} = \frac{3}{5} - \frac{x - 5}{15}$

10.  $\frac{1}{6}x = \frac{3x + 5}{4} + \frac{1}{3}(x - 1)$

$$11. \frac{2(2x + 1)}{5} - \frac{x + 2}{3} = \frac{1}{5}$$

$$12. \frac{x + 3}{2} - \frac{11 - x}{5} = 1 + \frac{3x - 1}{20}$$

**Express each repeating decimal as a fraction. Show your work.**

$$13. 0.\overline{4}$$

$$14. 0.0\overline{3}$$

$$15. 0.1\overline{5}$$

$$16. 0.2\overline{5}$$

$$17. 0.41\overline{6}$$

$$18. 0.31\overline{8}$$