

Kerry Ojakian's MTH 30 Class
Class Assignment #6

1. Solve the equation $1 - 3x = 10$.

2. Solve the following equations.

(a) $\frac{5x}{2} = 15$

(b) $\frac{-4x}{3} = -16$

3. Solve $-(x - 5) + 4 = 12$

4. Solve $8 - (x + 3) = 9 - (x + 4)$

5. **Solve the inequality and graph its solution.**

$3x - 5 < 12$

6. **Solve the inequality and graph its solution.**

$-8 - 7x > -1$

7. **Solve the inequality and graph its solution.**

$-(x - 2) + 4 > 7 - x$

8. Solve these absolute value equations:

(a) $|x - 5| = 20$

(b) $|4x + 7| = 15$

9. Solve.

(a) $|x - 3| = 4$

(b) $|x + 2| = 5$

10. Solve $|2x + 3| = 9$.

11. Solve the inequality $|3x + 2| > -2$

12. Solve these absolute value inequalities:

(a) $4|3x - 5| < 40$

(b) $|4x + 1| + 7 \geq 12$

13. Solve.

(a) $|x - 3| \leq 4$

(b) $|x + 2| \geq 5$

14. Solve $|2x + 3| > 9$.