

Course: Algebra I

Document:

LIVE Stream 1

Topic: Semester A Exam Review: Part 3

Reference Number:

1949-12

Subtopics: Solving two-step equations, Describing solutions to linear systems, and Solving absolute value equations.

<https://youtube.com/c/MrMattTheTutor>



1) Solve the following equations for the missing variable:

- a. $3A + 5 = 14$
- b. $2(4A - 6) = 20$
- c. $\frac{1}{2}A + \frac{1}{4}A = 12$

2) How many solutions are there to the following systems of equations:

- a. $Y = 2x + 3$ and $Y = x - 3$
- b. $Y = 6x + 1$ and $2Y = 12x + 2$
- c. $Y = 6x + 1$ and $2Y = 12x + 4$

3) Solve the following absolute value equation for the missing variable:

a. $2|4X + 6| = 40$

b. $3|2X + 8| = 60$

4) Solve the following equations for the missing variable:

a. $4(2X + 1) = 2(5X - 2)$

b. $-3(2X + 2) = 6(X - 2)$

c. $\frac{2}{3}X - \frac{1}{9}X = 25$

5) Solve the following absolute value equation for the missing variable:

a. $9|3X + 3| = 27$

b. $12|5X - 10| = 480$