Name: Date:	/10 <u>Instructor</u> : <u>Class Time</u> :
Unit 4 Module A Notes Sections 1	2.1 – 12.3
View the PowerPoint, Videos, or Textbook for	Module 4A.
Vocabulary Fill in the blanks.	
1. (Section 12.1) The $a, b, and c, a = b$ is equivalent to $a + c = b + b$	principle states that for any real numbers
2. (Section 12.2) The $a, b, and c, c \neq 0, a = b$ is equivalent to $a \cdot c = b$	principle states that for any real numbers $= \mathbf{b} \cdot \mathbf{c}$.
3. (Section 12.2) The multiplicative	of 3 is $\frac{1}{3}$.
4. (Section 12.2) The multiplicative	is $1 \text{ since } 1 \cdot x = x$.
5. (Section 12.3) We multiply every term on of all denominators in order to clear fractions.	

6. (Section 12.3) When solving an equation, if we end with a true equation, the equation has a(n)

Problems Show ALL steps.

1. (Section 12.1) Solve a - 11 = -25

2. (Section 12.2) Solve -3x = 33

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3. (Section 12.2) Solve
$$\frac{5}{2}x = 15$$

4. (Section 12.3) Solve
$$\frac{x}{2} - 1 = \frac{2}{3}x - 3$$
 (Hint: Multiply by LCD)

5. (Section 12.3) Solve
$$-2(x-5)+10 = -3(x+2)+x$$

6. (Section 12.3) Suppose you have simplified several equations and obtain the following results. What can you conclude about the solutions to the original equation.

a.
$$7 = 7$$
b. $x = 0$
c. $7 = -4$

a. ______
b. ______
c. _____