

Student: \_\_\_\_\_  
Date: \_\_\_\_\_  
Time: \_\_\_\_\_

Instructor: courtney trabue  
Course: GMC LSS Mathematics  
Book: Martin-Gay: Developmental  
Mathematics

Assignment: MAT 097 The Addition  
Property of Equality (91)

1. Solve the equation for x.

$$x + 1 = 2$$

$$x = \square$$

2. Solve the equation.

$$-2 = 5 + x$$

$$x = \square$$

3. Solve the equation for r.

$$r - 3.4 = 8.7$$

$$r = \square \text{ (Type a decimal.)}$$

4. Solve the equation for f.

$$\frac{3}{5} = \frac{1}{3} + f$$

$$f = \square \text{ (Type an integer or a simplified fraction.)}$$

5. Solve the equation for x.

$$7x + 3x = 9x + 7$$

$$x = \square$$

6. Solve the equation for n.

$$4(n - 6) = 5n - 2$$

$$n = \square$$

7. Solve the equation. Don't forget to first simplify each side of the equation, if possible. Check each solution.

$$\frac{2}{5}x + 1 = -\frac{3}{5}x + 7$$

$$x = \square$$

(Type an integer or a fraction. Simplify your answer.)

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8. Solve the equation for z.

$$5z + 8 - z = 3 + 3z - 9$$

z =

9. Solve the equation for z.

$$\frac{6}{7}z + \frac{3}{8} = -\frac{1}{7}z + \frac{3}{4}$$

z =  (Type an integer or a simplified fraction.)

10. Solve the equation for n.

$$4(n - 9) - (-4n - 8) = 7n$$

n =

11. Solve the equation for x.

$$-3(x + 3) - 3(4 - 4x) = 8(x - 5) + 3$$

x =

12. Solve the equation for x.

$$6x + 4 = 7x$$

x =

13. Solve the equation for x.

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

x =

14. Solve the equation for x.

$$-4.3 - 6x - 6.4 - 4x = -9x - 1.5$$

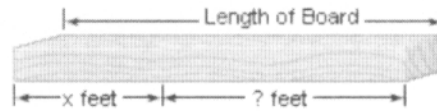
x =  (Type a decimal.)

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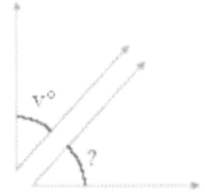
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15. A 14-foot board is cut into two pieces. If one piece is  $x$  feet long, express the other length in terms of  $x$



ft

16. Write the algebraic expression described.  
Recall that two angles are complementary if their sum is  $90^\circ$ . If one angle measures  $v^\circ$ , express the measure of its complement in terms of  $v^\circ$ .



The measure of its complement in terms of  $v^\circ$  is   $^\circ$ .

17. In 2004, the number of graduate students at a university was approximately 33,000 fewer than the number of undergraduate students. If the number of undergraduate students was  $x$ , write the number of graduate students that attended the university as an algebraic expression.

graduate students attend the university.

18. The area of a desert in Africa is 11 times the area of a desert in Asia. If the area of a desert in Asia is  $m$  square miles, express the area of a desert in Africa as an algebraic expression in  $m$ .

The area of a desert in Africa is  square miles.