

MAT 0024C  
Practice for the Exam  
Chapter 2 (V1)  
Carson

Name: \_\_\_\_\_  
Date: \_\_\_\_\_  
Section: \_\_\_\_\_

Solve each equation:

1.  $-7y - 6 + 9y = 6$

2.  $4x - 5 = 3x + 17$

3.  $7(7x + 5) = 6(8x + 3)$

4.  $2(x - 3) + 7x = 12$

5.  $12x - 7 - 11x = 6 + (-3)$

6.  $3(y + 5) = 8y$

7.  $3(5x - 7) = 2(7x - 3)$

8.  $9 + 2(7x - 4) = -27$

9.  $\frac{2}{3}(x-4) - 3 = \frac{x}{2} - 4$

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

11.  $5 - 4(x + 3) - 2(2x - 1) = 4x + 8$

12.  $3(x - 4) = 3x - 10$

13.  $4(x + 6) = 4x + 24$

14.  $\frac{5}{2}x - 6 = \frac{1}{7}(x + 3) + 1$

Write each as an equation, using "x" for a number:  
(Do not solve!)

15. The sum of four times a number and twelve is thirty four.

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16. Three times the difference between a number and eight is equal to the quotient of the number and four.

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17. The sum of three consecutive odd integers is 105. Find the integers.

18. Let  $V = 2\pi rh + 2\pi r^2$

a) Solve for  $h$

b) Find  $V$  when  $r = 1$  and  $h = 3$

19. Let  $3x + 2y = 6$

a) Solve for  $y$

b) Find  $y$  when  $x = 4$

20. Solve  $P = 2L + 2W$  for  $L$

21. Solve  $C = 4xy + yd - 3k$  for  $d$

Solve and graph (on a number line) each of the following:  
Write your answer in interval notation.

22.  $4(x + 1) \leq 8x - 8 - 4$

23.  $10 < 5x + 5 < 20$

24.  $(6x - 2) - 2(4x + 1) \geq 0$

25.  $6x + 5 \leq -7$

