

Math 200 Practice Test

1. Simplify. $|9| + |-12| - |-16|$
2. Find all values x for which $|x| = 14$.
3. Simplify. $15 - 23k + 7(4k - 9)$
4. Evaluate $b^2 - 4ac$ for $a = -1$, $b = -8$ and $c = 5$.

Solve. Don't forget to express your solutions using $\{ \}$

5. $-9x = 24$
6. $x - 3 = -9$
7. $5x - 8 = 27$
8. $51 - 2x = -21$
9. $2m + 23 = 17 - 8m$
10. $3(2x - 7) - 2(x - 9) = 2x - 33$
11. $\frac{1}{3}x + \frac{3}{4} = \frac{5}{24}x + \frac{3}{2}$

Solve. Graph your solution on a number line, and express it in interval notation.

12. $x - 3 > -8$
13. $9 - 4x \geq -7$
14. $-21 \leq 3x - 6 \leq 24$

Word Problems: You must set up an equation and solve it to receive credit. "Guess & Check" and arithmetic methods will receive no credit.

15. One number is 26 more than another. If the sum of the two numbers is 98, find the two numbers.
16. Celia has \$5 and \$10 bills in her purse, worth a total of \$135. She has 6 more \$5 bills than \$10 bills. How many \$5 bills does Celia have?
17. The sum of three consecutive integers is 279. Find the three integers.
18. The width of a rectangle is 7 feet longer than its length, and the perimeter is 50 feet. Find the length and the width of the rectangle.