

Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

## Solving Equations and Inequalities Review

Solve each equation or inequality. Show each step of your work!

1.  $-19 = b - 6$

2.  $-8 = -16 + n$

3.  $-\frac{n}{16} = 2$

4.  $-9 + x = -26$

5.  $29 + m = 13$

6.  $418 = -22a$

7.  $8x + 73 = 1$

8.  $-\frac{n}{3} - 10 = 0$

9.  $-9 = -\frac{h}{12} + 5$

10.  $5 - 2y = 7$

11.  $2x + 3 = 7$

12.  $3b + 6 = 12$

13.  $9 = 5 + 4t$

14.  $4a + 1 = 13$

15.  $-t + 2 = 12$

Solve each inequality. Graph your solution.

16.  $x + 12 > -15$



17.  $-23 > n - 18$



18.  $5p < -25$



19.  $-9c > -81$



20.  $-7y < 21$



21.  $\frac{h}{3} > -6$



22.  $-4k - 5 \leq 3$



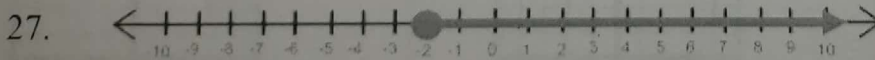
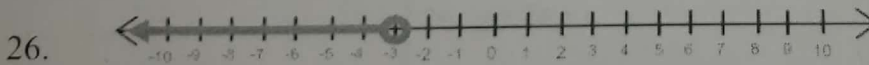
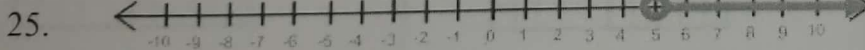
23.  $\frac{x}{-5} + 17 > 4$



24.  $3x - 27 > -18$



Write an inequality to match each graph.



Find the slope of the line that passes through the points. Show your work.

61. $(-5, 3), (2, 1)$	62. $(8, 4), (11, 6)$	63. $(9, 3), (9, -1)$	64. $(-4, -2), (-6, 4)$
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Find the rate of change. Show your work.

65.	Number of Hours	3	6	9	12
	Distance (in miles)	135	270	405	540

66.	Number of Weeks	1	3	5	7
	Pounds	173	169	165	161

Find the slope of the line.

67.		68.		69.	
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Graph the line.

70. $y = -x - 3$		71. $y = \frac{1}{3}x + 2$		72. $y = -3x - 1$	
73. $y = -\frac{3}{2}x - 2$		74. $y = 2x + 1$		75. $y = \frac{1}{4}x$	

# Algebra 1

## Function Notation Worksheet Alternate

Name \_\_\_\_\_

For #1-8: Evaluate the following expressions given the functions below:

$$g(x) = -3x - 1$$

$$f(x) = x^2 - 7$$

$$h(x) = \frac{16}{x}$$

$$j(x) = 2x - 9$$

1.  $g(10) =$  \_\_\_\_\_

2. What is the value of  $x$  if  $g(x) = 16$   $x =$  \_\_\_\_\_

3.  $f(3) =$  \_\_\_\_\_

4. What is the value of  $x$  if  $f(x) = 23$   $x =$  \_\_\_\_\_

5.  $h(-2) =$  \_\_\_\_\_

6. What is the value of  $x$  if  $h(x) = -2$   $x =$  \_\_\_\_\_

7.  $j(7) =$  \_\_\_\_\_

8.  $h(a) =$  \_\_\_\_\_

For #9-12: Translate the following statements into coordinate points:

9.  $f(-1) = 3$  \_\_\_\_\_

10.  $g(4) = -1$  \_\_\_\_\_

11.  $h(2) = 8$  \_\_\_\_\_

12.  $k(2) = 9$  \_\_\_\_\_