

Test Review – Test 2

Solve each equation

1. $6 = -3(x + 2)$

2. $12x - 6 = 12x + 1$

Write an equation for the word problem and solve it for the following...

3. Joey paid \$82.50 for a pair of shoes including tax. If tax is 7% how much were the shoes at sticker price (before tax)?

4. Joey is 3 years older than Maggie. Jimmy is three years younger than Maggie. Together their ages add up to 45. How old is Joey?

Solve each of the inequalities. Graph the solution for each on a number line.

5. $-6x - 8 \leq 22$

6. $-4 + 4x + 4 \geq -8$

Write an equation that models each of the inequalities. Solve each.

7. Mary has \$30 to spend at the consignment store. Tops cost \$11 each and socks cost .50 cents a pair. If she buys one top, what is the most number of socks she could buy with her money? (Assume not tax)

8. Mr. Ellis has \$500 in a bank account. He wants to have at least \$50 left at the end of the summer. If he withdraws \$25 a day to spend on his son for food, diapers, etc what is the most number of days he can go and still achieve his goal?

Solve each of the equations for the variable requested. Show all work along with a do/undo table.

9. $x - by = z$ Solve this equation for y.

10. $P = mxr$ Solve this equation for x.

Graph the following inequalities on a number line.

11. $x \leq -5$

12. $x > -1$

Determine if the point is a solution to the given equation.

13. Is $(1, -2)$ a solution to $2x + 3y = 8$

14. Is $(-5, 8)$ a solution to $y = 13 + x$

Complete the table

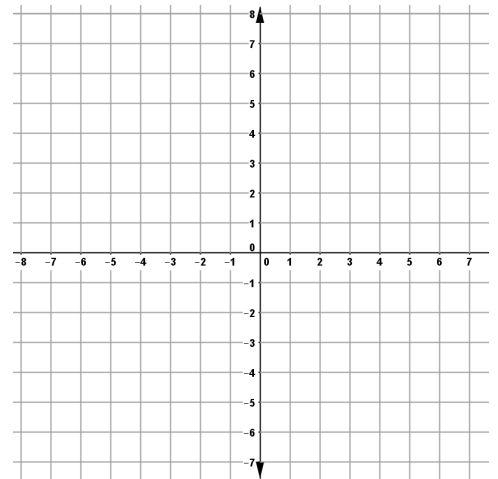
15. $y = -2x + 1$

X	Y
-2	
-1	
0	
1	
2	

Graph each of the following points

16.

X	Y
2	-1
-5	6
0	5
-2	-4
6	0



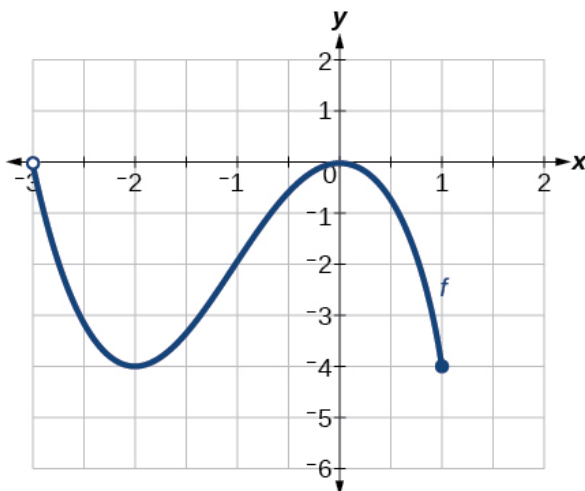
State the domain and range of each. For number 19 and 20 be sure to use proper notation.

17.

18. $\{(4, -3), (2, 3), (-5, 2), (-3, 4), (6, 3)\}$

X	Y
2	-1
-5	6
0	5
-2	6
6	0

19.



20.

