

**ORDER OF OPERATIONS**

1.  $2 \cdot [26 \div (9 + 4)] + 27 + 2(35 \div 7)$

2.  $2^2 \cdot 3 - 5 \cdot 3 - 1$

3.  $\frac{6(2 + 4) - 1}{2 \cdot 3 + 1}$

4.  $(7 \times 3) + (3 \times 1)^2$

5.  $\frac{17 \cdot 5 - 3 \cdot 5}{3^2 + 1}$

6.  $18 \div 3 \times 2$

**EVALUATING EXPRESSIONS**Evaluate each expression if  $x = 5$ ,  $y = 4$ ,  $z = -3$ 

7.  $-2(x + y)$

8.  $yz + zy + xy$

9.  $y + 3 - x$

10.  $x - x - 6$

## ADDING LIKE TERMS AND DISTRIBUTIVE PROPERTY

11.  $12x + 3x$

12.  $10b - 2b + 7c + 4b - 9$

13.  $5a + 3z - z - 2a$

14.  $3x^3y - 6x^3 - x^3y$

15.  $5(t + 3)$

16.  $-7(4r + 7)$

17.  $2(2r-4) + 7$

18.  $8b - 12(3b + 6)$

## COORDINATE PLANE

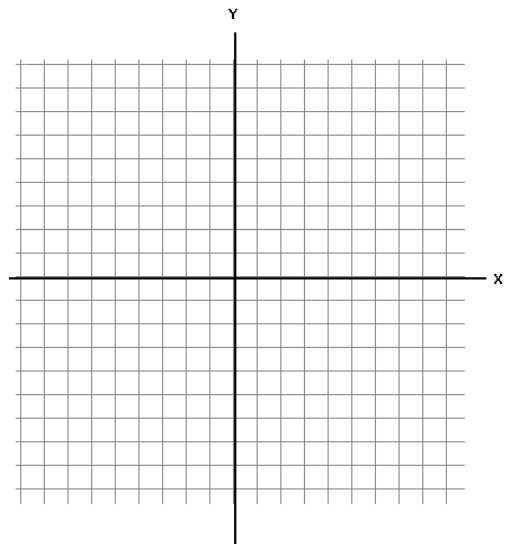
Plot the following points

19.  $(1,2)$

20.  $(-5, -8)$

21.  $(-3, 9)$

22.  $(0,-2)$



## SOLVING EQUATIONS

23.  $x - 4 = -8$

24.  $10 = x + 8$

25.  $x - (-3) = 15$

26.  $x + (-5) = 8$

27.  $2x = 20$

28.  $183 = -3x$

29.  $5x + 3 = 23$

30.  $-\frac{x}{7} + 10 = 5$

31.  $\frac{u+12}{-4} = 5$

32.  $-3x + 2 = 6$

33.  $5 = -2x + 7$

34.  $\frac{2}{5}x - 7 = 13$

35.  $2x - 8 + 3x = 52$

36.  $3x - 4 + 8 = 30$

37.  $-2x - 4 - 3x + 8 = -21$

38.  $5(4x + 2) = 170$

$$39. 2(3x + 1) - 2x = 14$$

$$40. 4x - 2(-3x - 2) = 34$$

$$41. 4x + 27 = 3x$$

$$42. 6s - 11 = -2s + 5$$

$$43. -12q + 4 = 8q - 6$$

$$44. 17x + 9 = 9x - 27$$

$$45. 3x + 2 = 3x - 6$$

$$46. 15x + 3 = 3(5x + 1)$$

### **FUNCTIONS**

47. IS  $\{(0,2), (5,2), (9,8), (5,7)\}$  a function? Why?

**Solve if the domain is  $\{-2, 0, 2\}$  then graph  
(make a t-table)**

$$48. Y=2x-7$$

$$49. Y=x^2 - 3x + 10$$