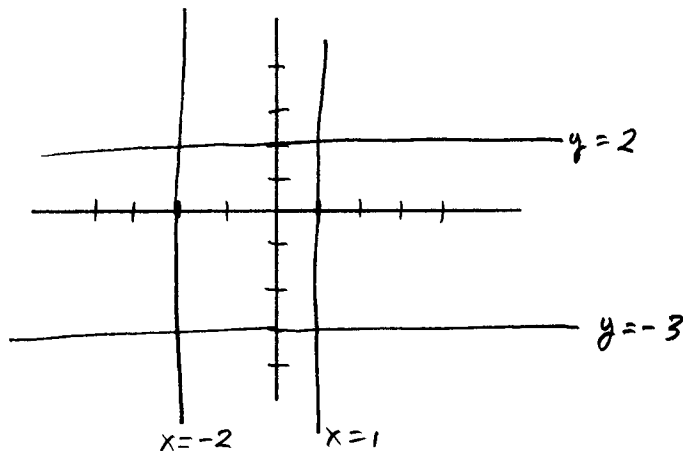


P-7 Sketch each of the following LINES.

1. $y = 2$
2. $x = 1$
3. $y = -3$
4. $x = -2$



Rewrite each of the following $Ax + By = C$ equations in the form $y = mx + b$.

5. $-x + y = 1$

$$y = x + 1$$

7. $-10x + 5y = 0$

$$5y = 10x$$

$$y = 2x \quad (\text{or } y = 2x + 0)$$

6. $x - y = 2$

$$-y = -x + 2$$

$$y = x - 2$$

8. $2x + 3y = 6$

$$3y = -2x + 6$$

$$y = -\frac{2}{3}x + 2$$

Translate each of the following situations into an equation of the form $Ax + By = C$. Be sure to state what quantities your x and y represent.

9. The sum of twice Tom's money with three times Joe's money is sixty dollars.

let x be Tom's \$
 y be Joe's \$

$$2x + 3y = 60$$

10. The HappiDaz Toy Corporation makes two different plastic toy trucks. Both require the use of an injection molder in the manufacturing process. The molding machine is used twelve hours per day. Each batch of fire engines needs two hours in the molding machine while each batch of ambulances needs three hours. (Find an expression relating the number of batches made to the number of hours the machine is used.)

let x be # of batches of fire engines
 y be # of batches of ambulances

$$2x + 3y = 12$$