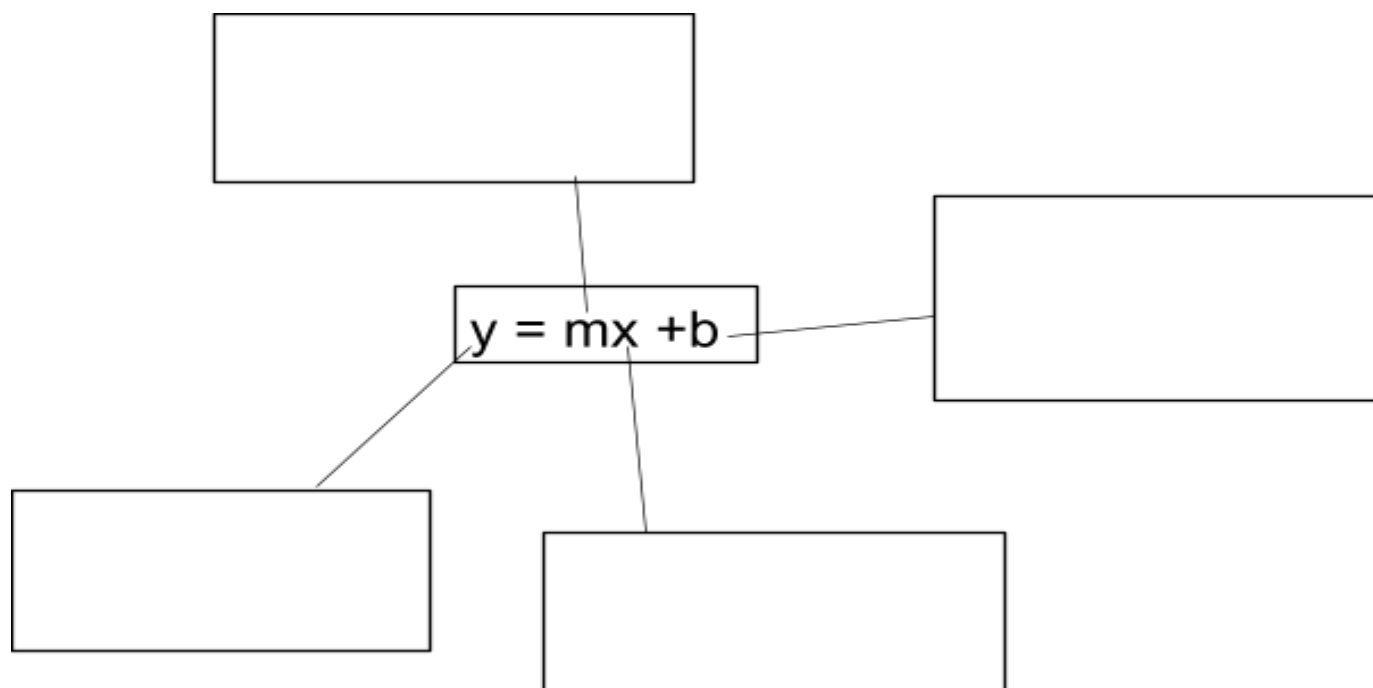


Graphing Lines

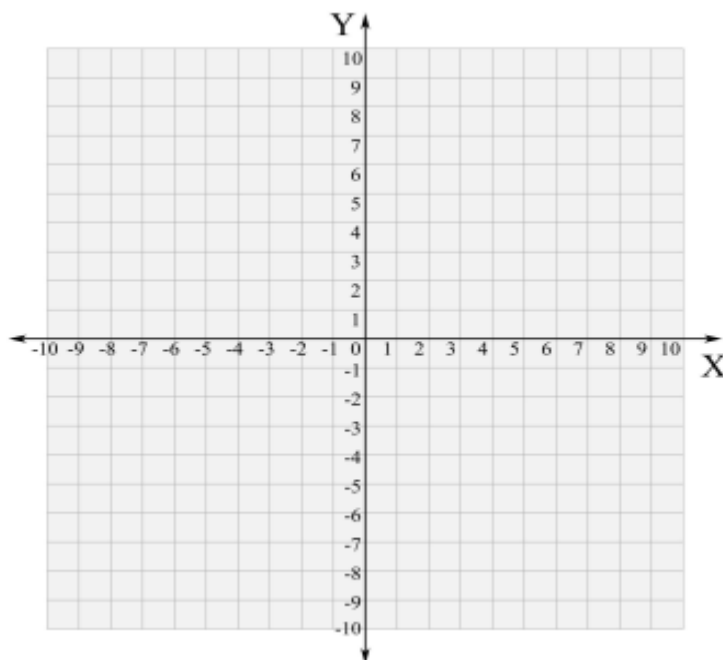
When graphing lines, one must reference the numbers on x-line (horizontal) and y-line (vertical)

For a basic line, the base equation is $y=mx+b$. Define each variable



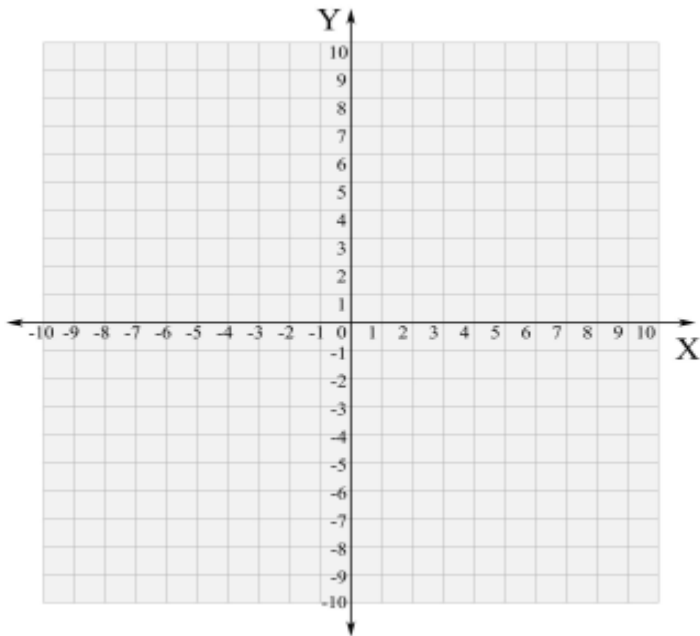
Take the equation: $y=2x+1$

x-value	y-value
0	
1	
2	
3	
4	

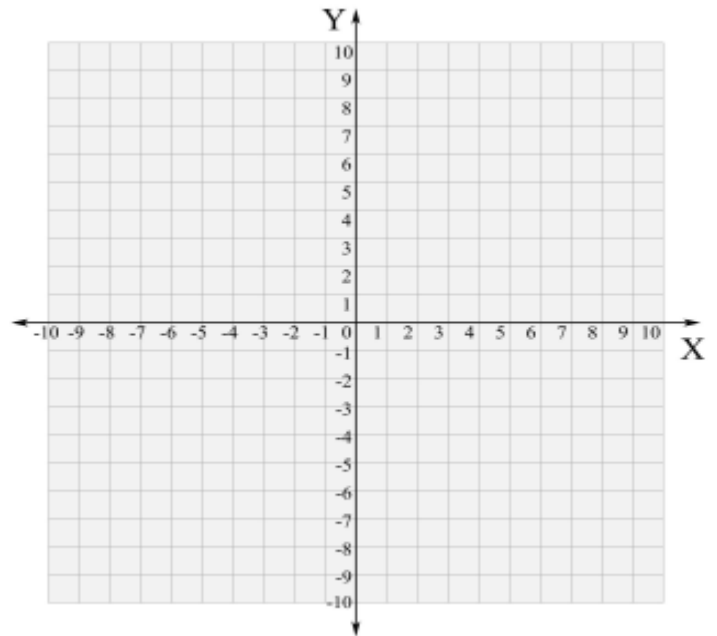


Let's practice graphing lines:

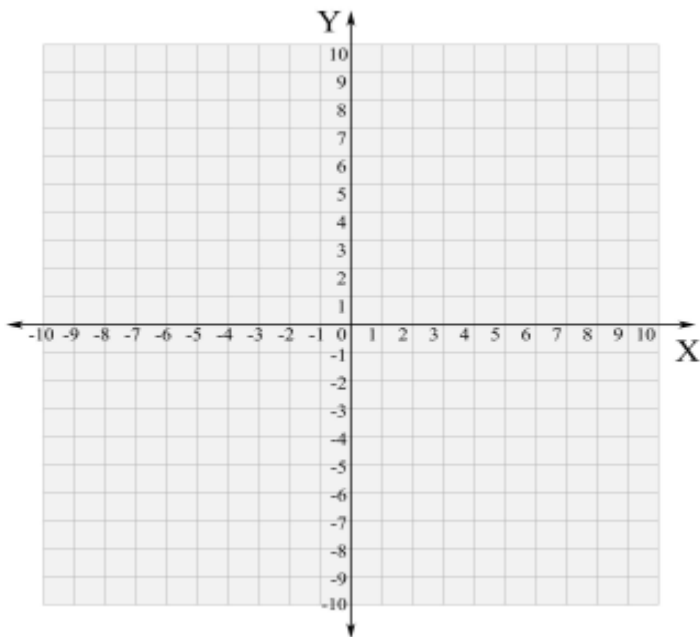
1). $y=x-1$



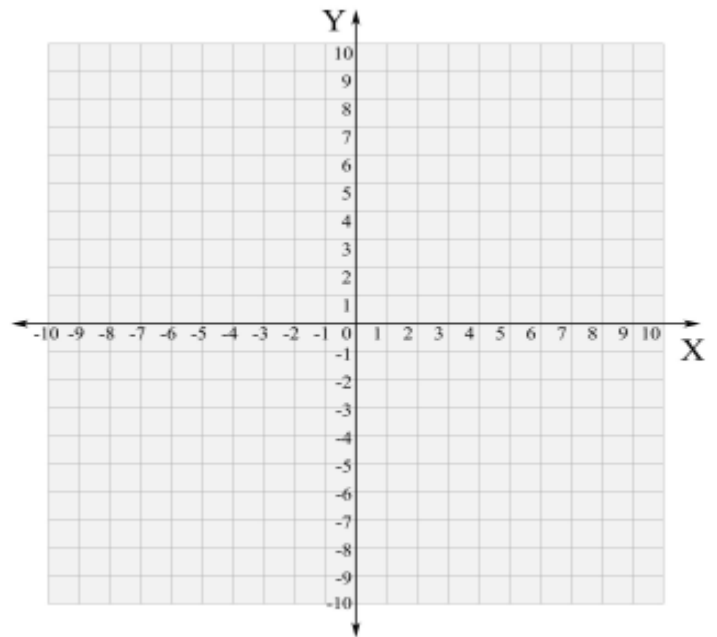
2). $y=-2x+1$



3). $y=3x-2$

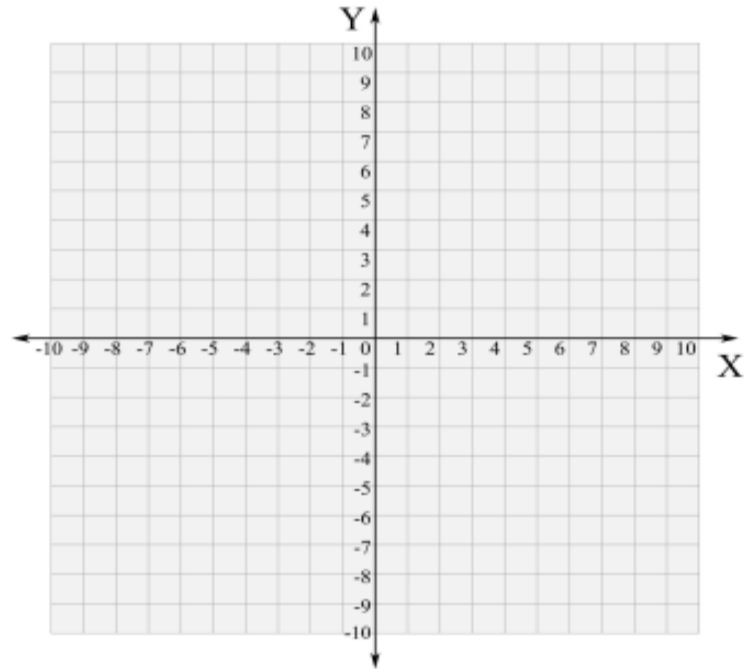


4). $y=5x-10$

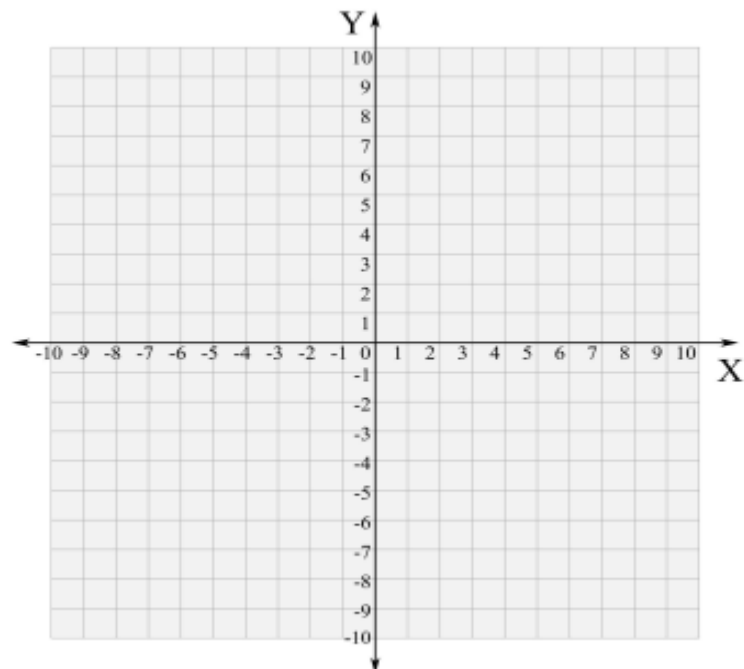


Word Problems:

1). Principal Pinto walked from her house at $(-2, 1)$ to the grocery store at point $(4, 7)$. Place a dot where her house is, where the grocery store is, and find the equation of the line made between the buildings (hint: $b=3$)

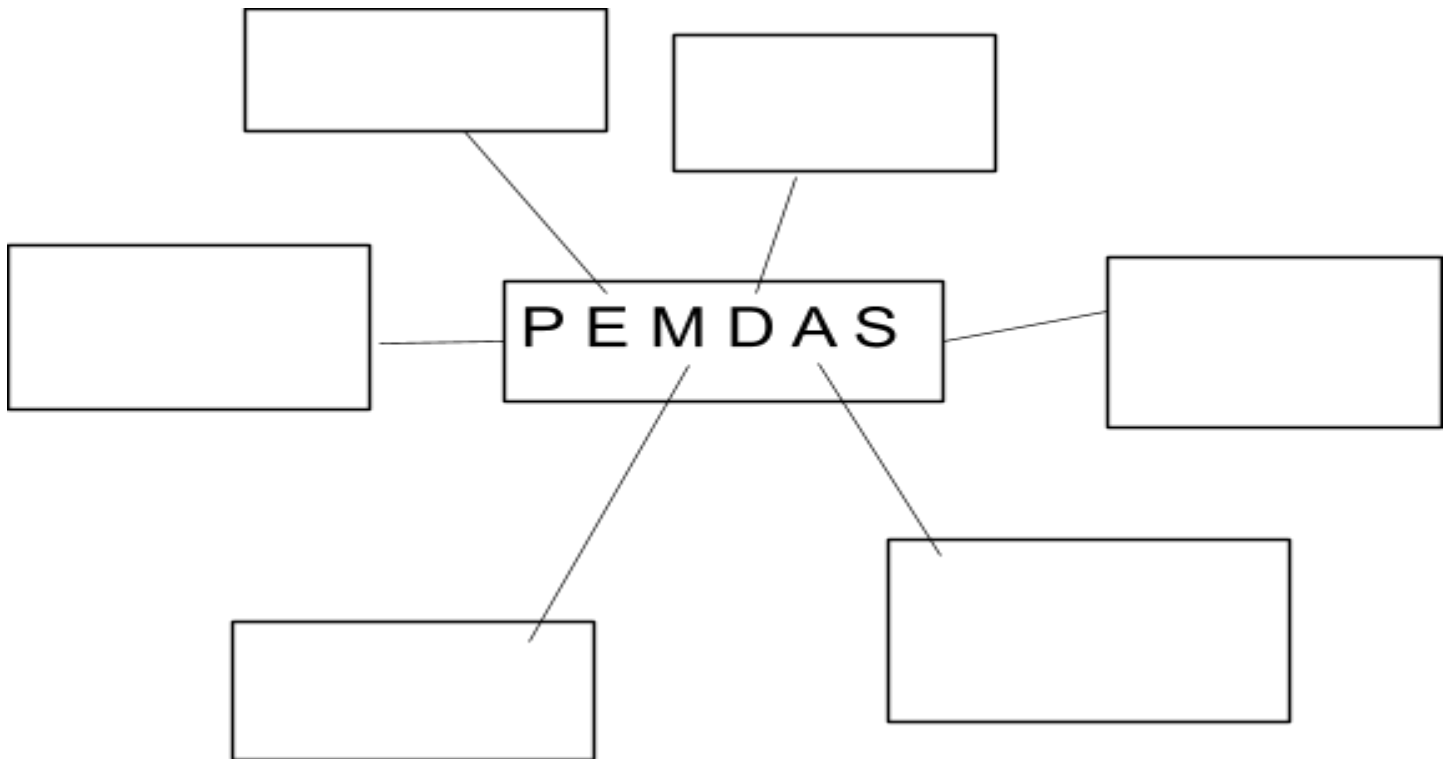


2). The North Davis dolphin swam from the coral reef at $(-2, 4)$ to a swarm of fish at $(0, 2)$. Place a dot where its house is, where the grocery store is, and find the equation of the line made by the dolphin. (hint: $b=2$)



Order of Operations

Please **E**xcuse **M**y **D**ear **A**unt **S**ally



Practice:

1. $5 - 6 \times 4 + 2 =$

2. $(5 - 2) \times 6 \div 9 =$

3. $18 \div 3^2 - 7 + 2 \times 5 + 2^2 =$

4. $(11 - 2 \times 5)^2 + 3^2 =$

$$5. (5166 \div 861 + 14726)^2 \times 0 =$$