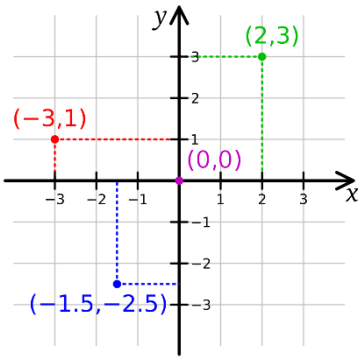
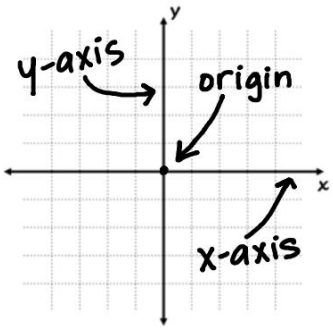
Math: Pre-Algebra Session #5

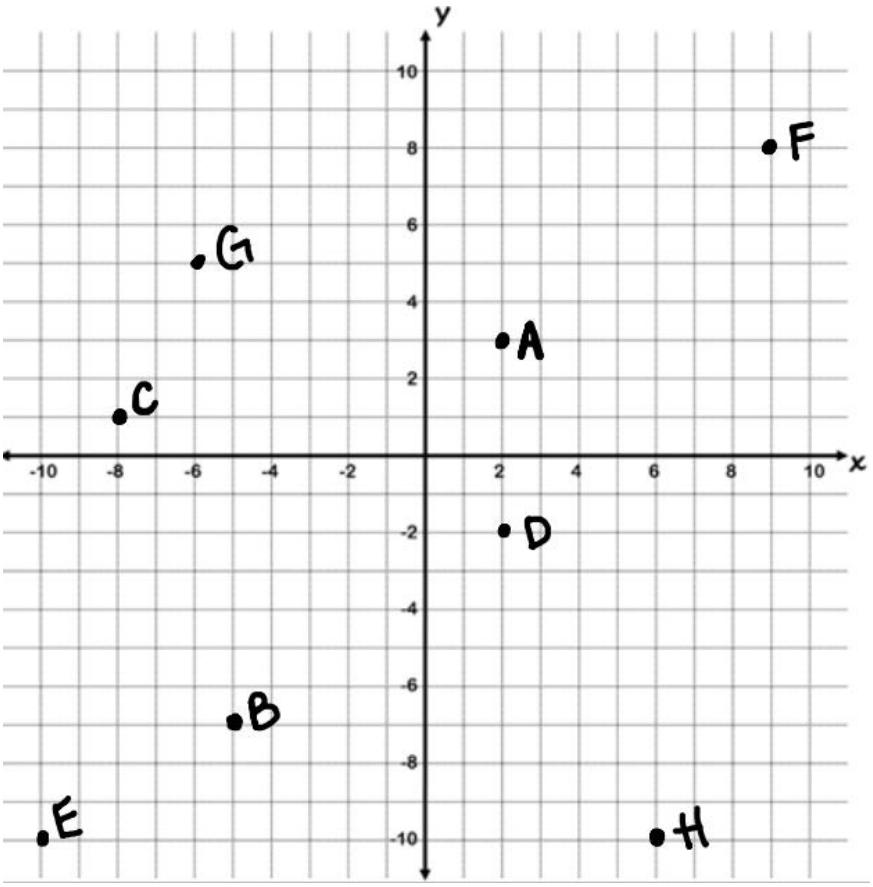
The Cartesian coordinate system is a grid that specifies each point by a set of numbers called *coordinates.*

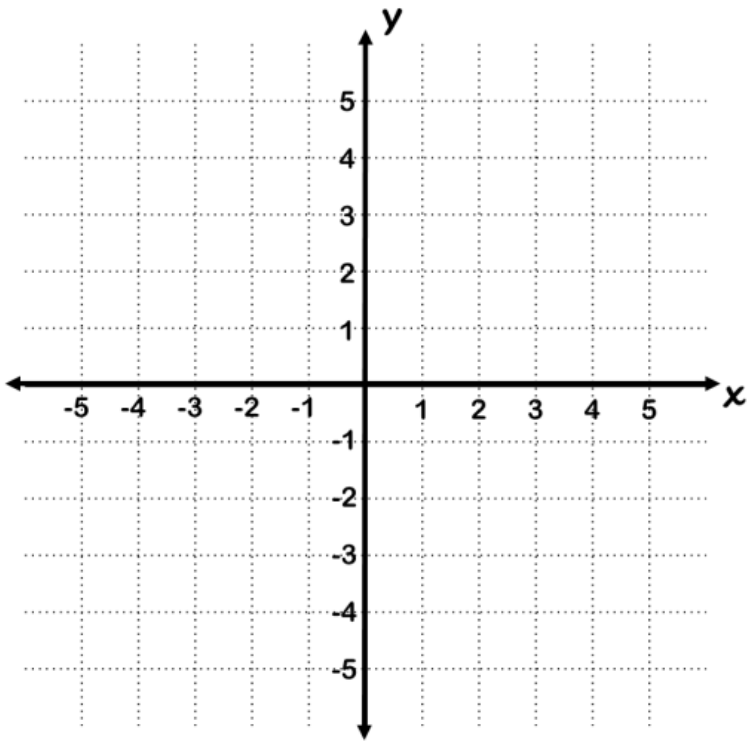


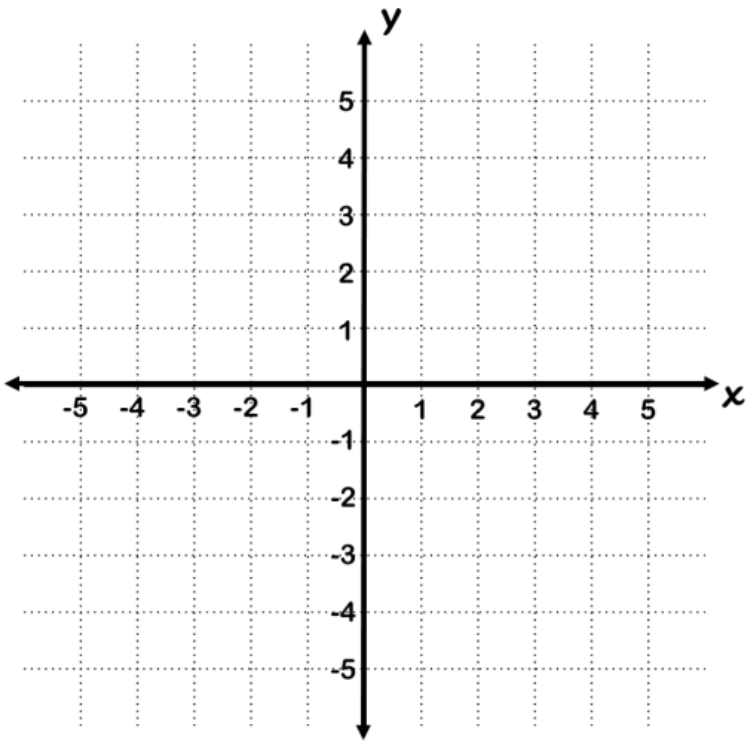


Find the x-coordinate by counting how many spaces left or right from the origin.

Find the y-coordinate by counting how many spaces up or down from the origin.

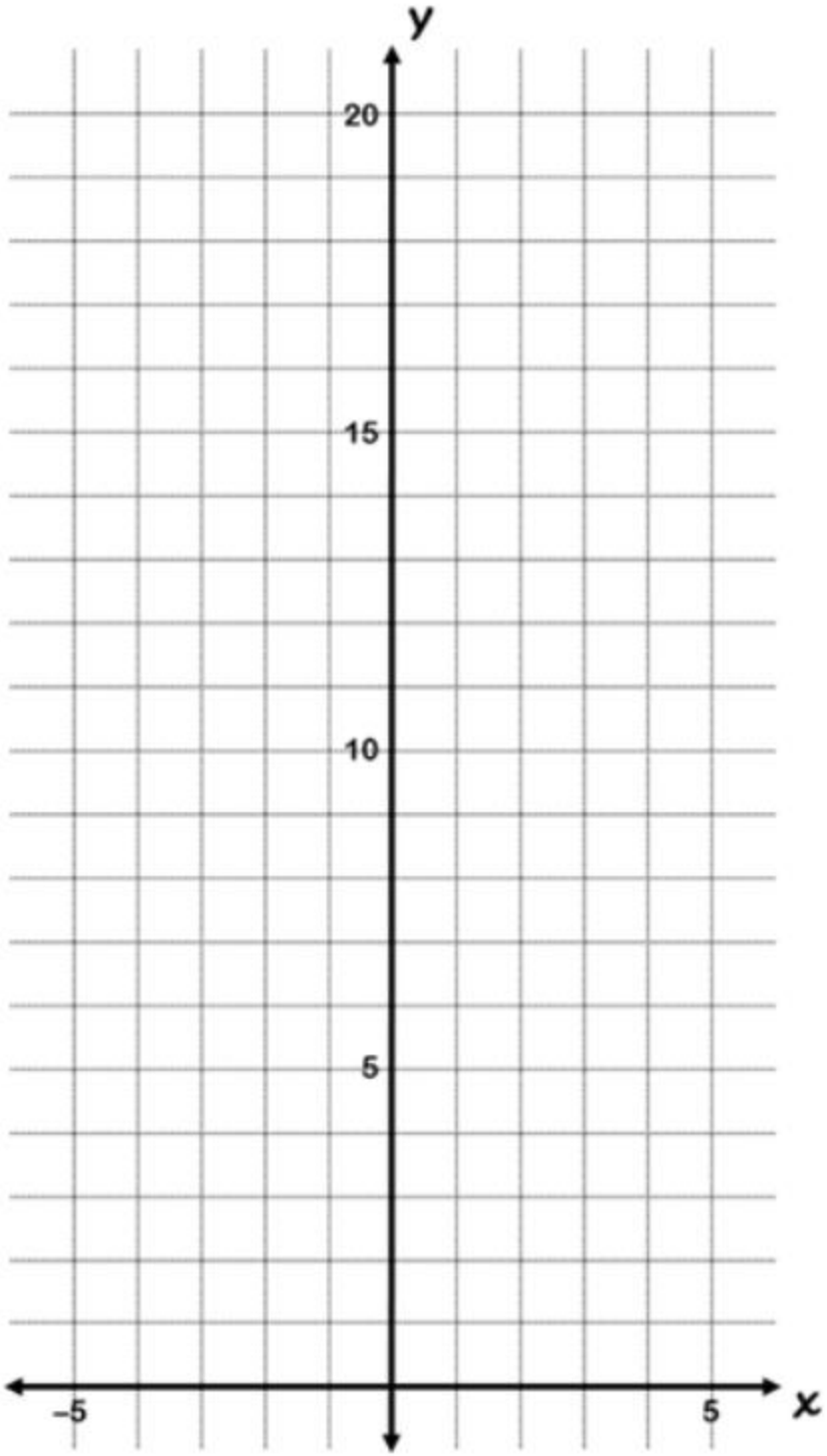



y
x
5
4
3
2
1
-1
-2
-3
-4
-5
-5 -4 -3 -2 -1 1 2 3 4 5


y
x
5
4
3
2
1
-1
-2
-3
-4
-5
-5 -4 -3 -2 -1 1 2 3 4 5

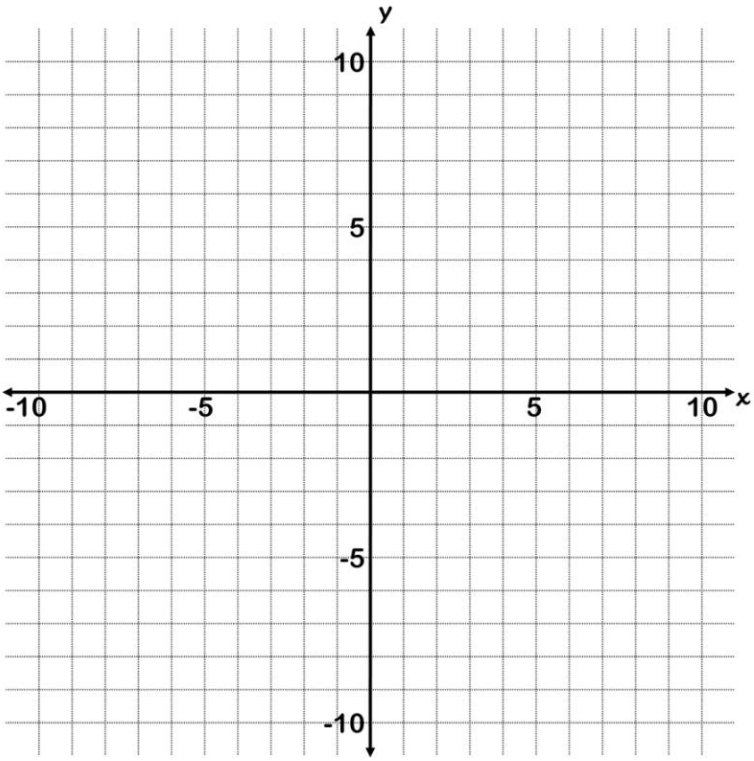
Plot these points:

x	y
-3	10
-2	5
-1	2
0	1
1	2
2	5
3	10



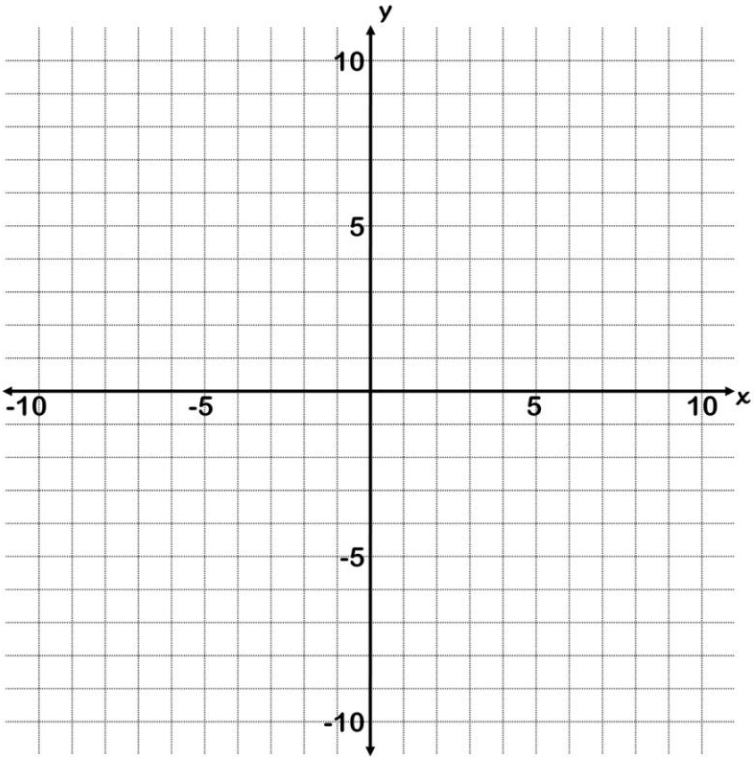
Graph the equation: $y = 3x - 2$

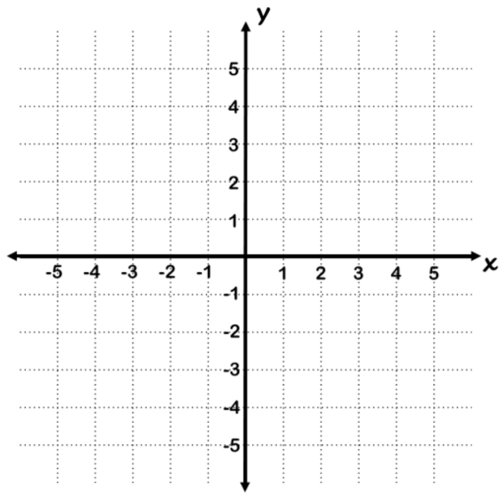
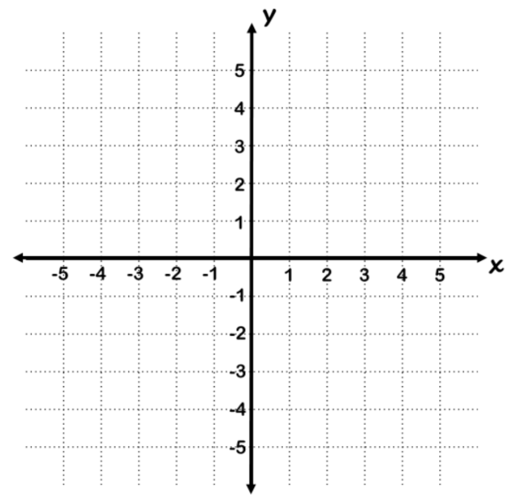
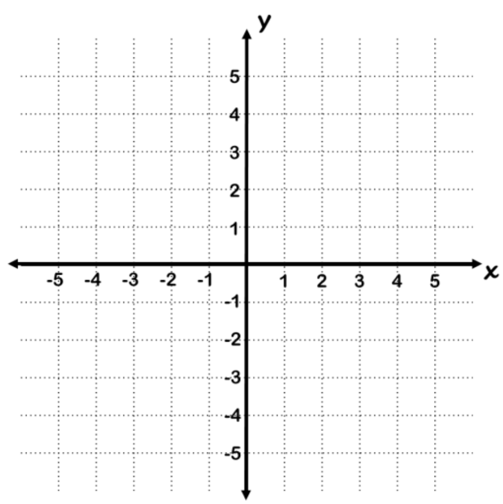
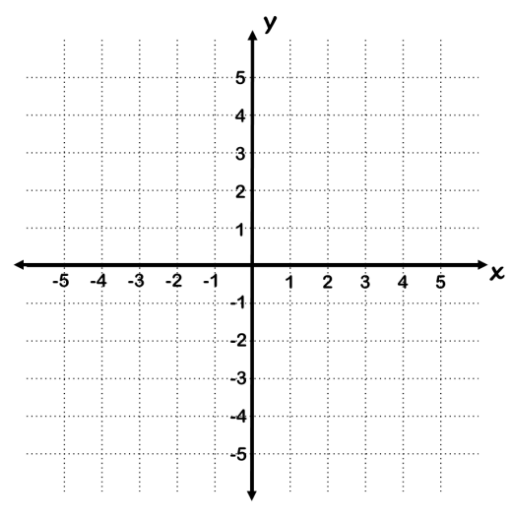
x	y



Graph the equation: $y = \frac{1}{2}x^2 + 4$

x	y



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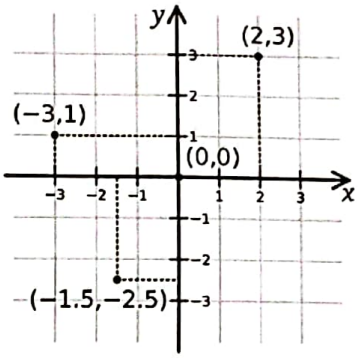
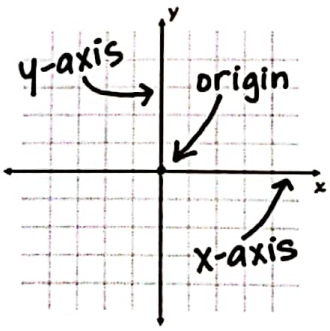
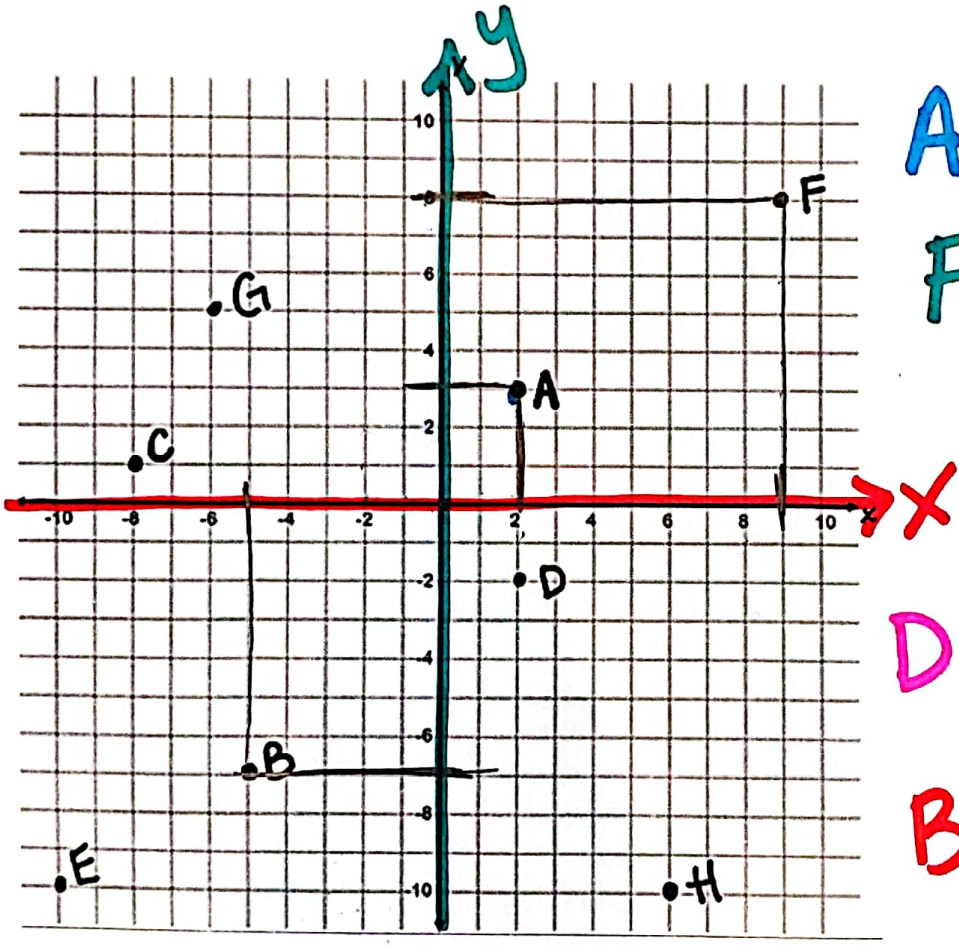
The Cartesian coordinate system is a grid that specifies each point by a set of numbers called *coordinates.*





Find the x-coordinate by counting how many spaces left or right from the origin.

Find the y-coordinate by counting how many spaces up or down from the origin.



A(2, 3)

F(9, 8)

D(2, -2)

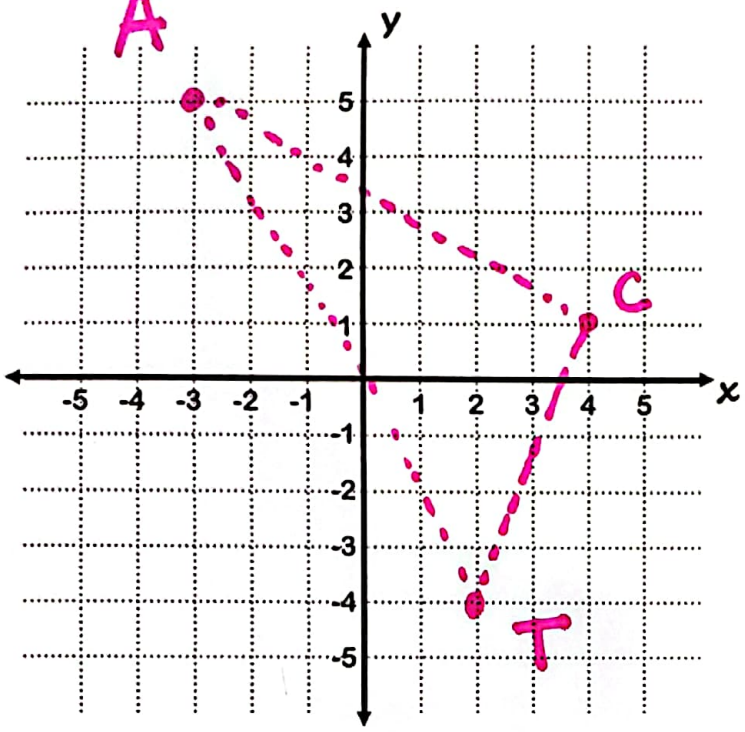
B(-5, -7)

C(-8, 1)

C (4, 1)

A (-3, 5)

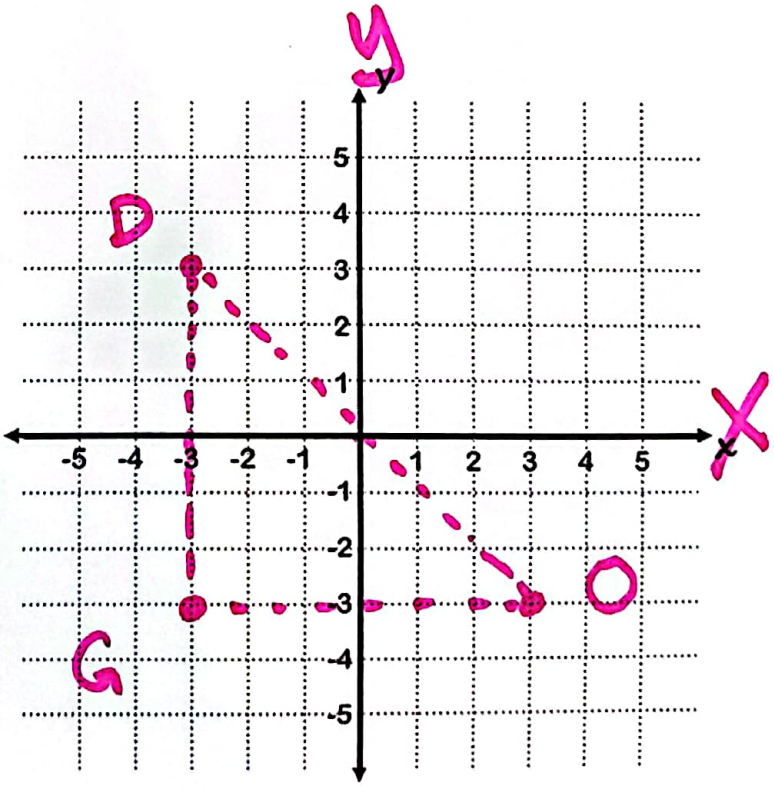
T (2, -4)



D (-3, 3)

O (3, -3)

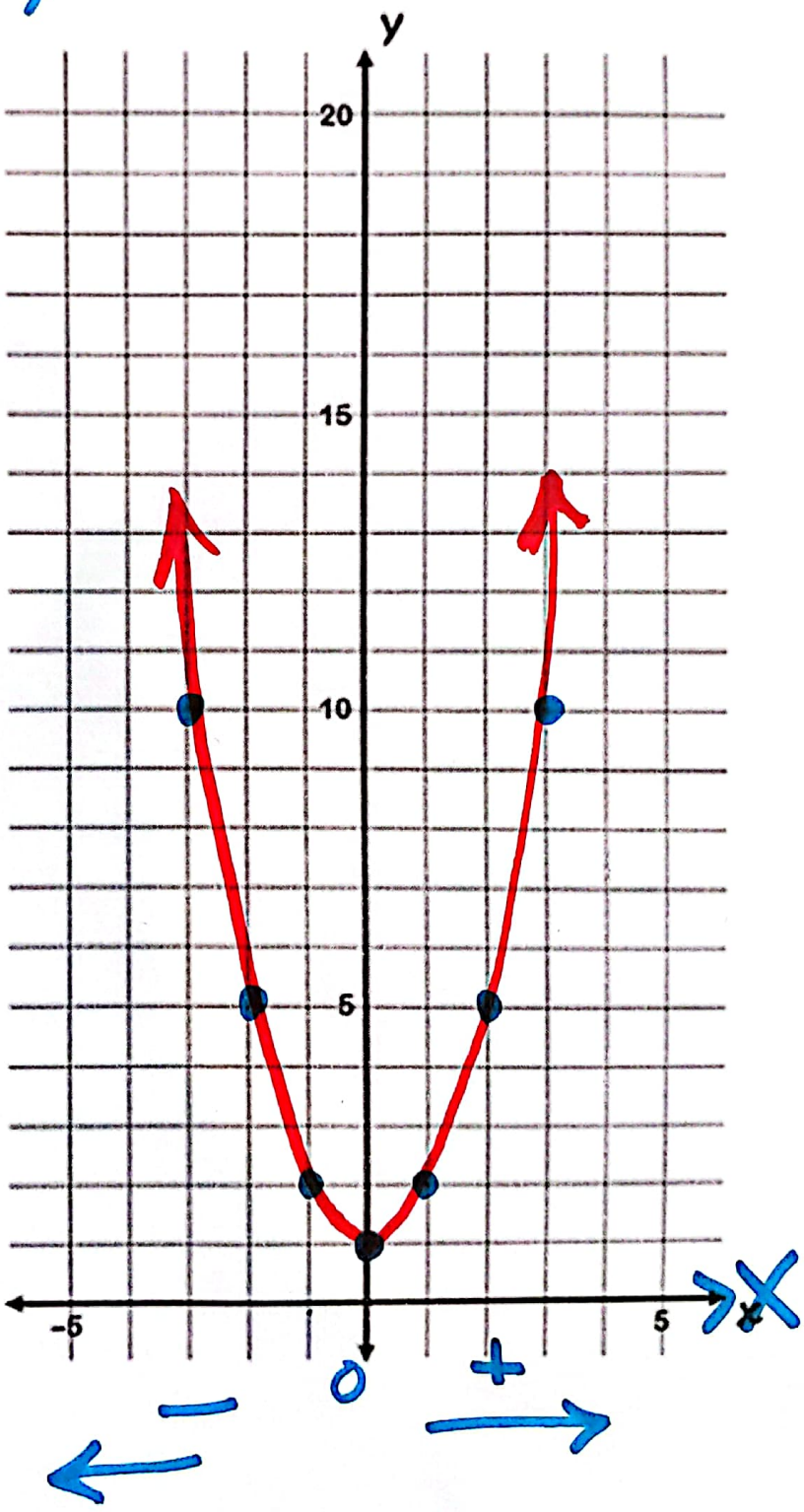
G (-3, -3)



Plot these points:

x	y
-3	10
-2	5
-1	2
0	1
1	2
2	5
3	10

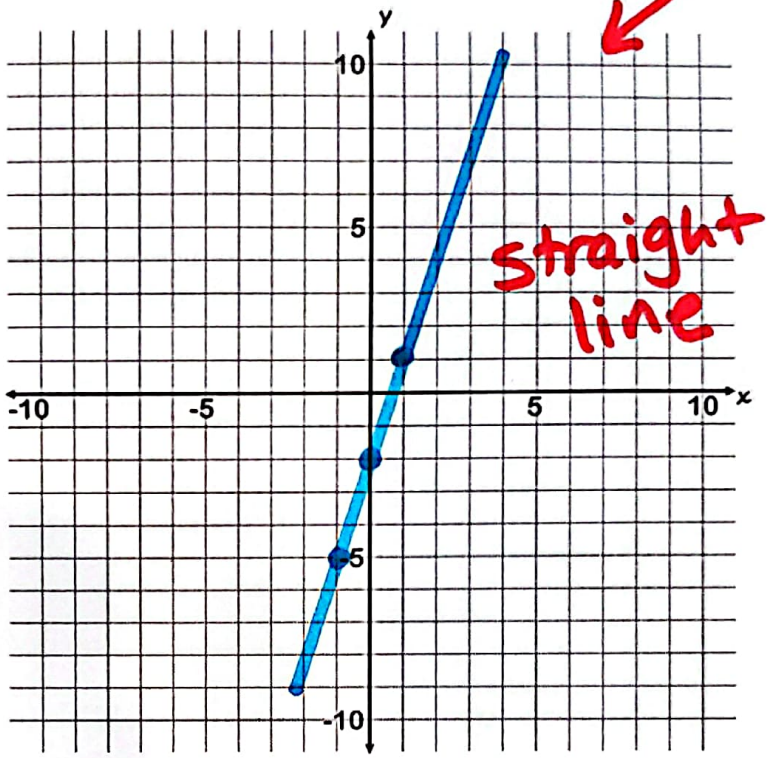
(-3, 10)



Graph the equation: $y = 3x - 2$

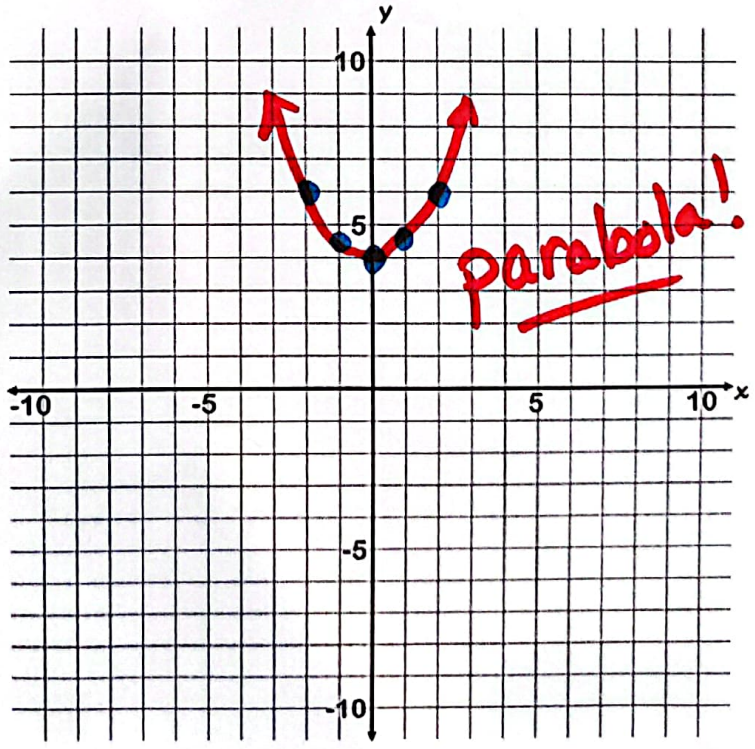
Linear eq.

x	y
0	-2
1	1
-1	-5

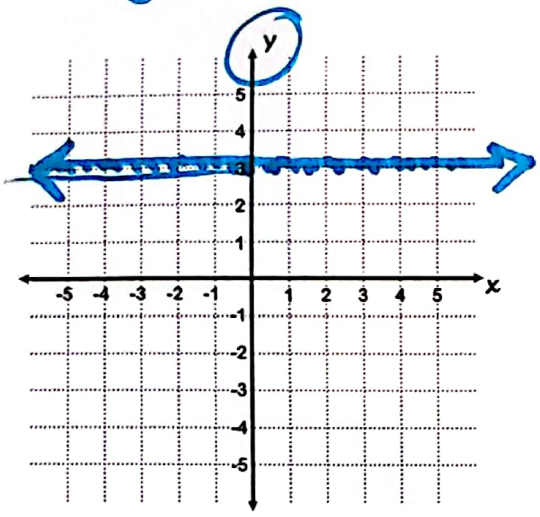


Graph the equation: $y = \frac{1}{2}x^2 + 4$

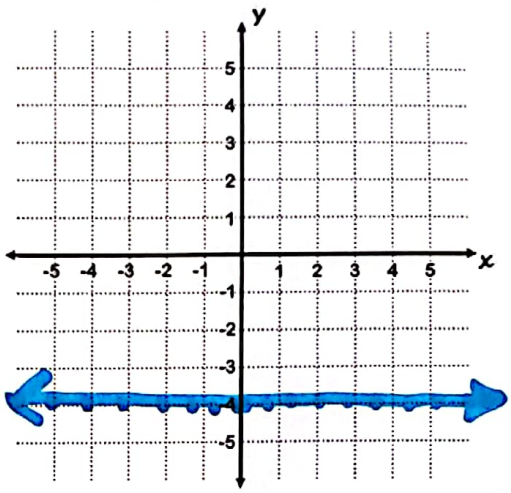
x	y
0	4
1	$4\frac{1}{2}$
-1	$4\frac{1}{2}$
2	6
-2	6



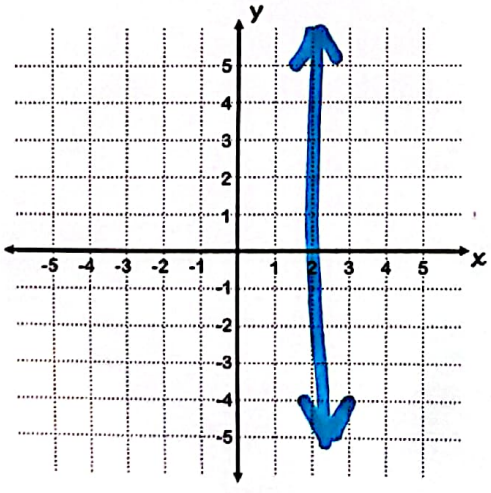
$y = 3$



$y = -4$



$x = 2$



$y = 2x + 1$

slope

y-intercept