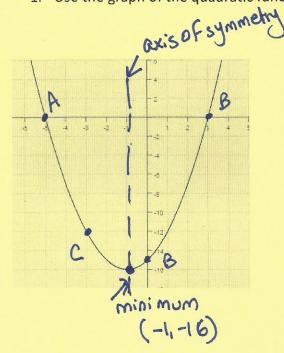
1. Use the graph of the quadratic function y = f(x) given below.



Write the coordinates of the	Solutions are X-interepts
point(s) that are solutions to f(x)	= $(y=0)$ x=-5 and $x=3$.
0.	x = -5 and $x = 3$.
Label them on the graph as "A."	
Write the coordinates of the y- intercept(s).	(0,45)
Label them on the graph as "B."	
Write the coordinates of another	(-3,-12) Any point on the graph
point that is a solution to $y = f(x)$.	on the draph
Label it on the graph as "C."	J. T.
Draw the line of symmetry and	YI
write the equation:	X=-1 axis of symmetry
	axis of a
Label the maximum/minimum an	(-1,-16)
write the coordinate:	(11 .0)
Describe the end behavior:	As $x \to +\infty$, $f(x) \to \underline{+\infty}$
	As $x \to -\infty$, $f(x) \to \underline{+\infty}$
Increasing interval	[-1,+00)
Decreasing interval	(-0,-1]
Domain	(-00, +00)
Range	[-16,+00)
	luna I

b. Write the equation for the graph above in Vertex form and in Standard form.

$$a=1$$
 vertex $(-1,-16)$
 $f(x)=a(x-h)^2+K$
 $f(x)=1(x+1)^2-16$ \leftarrow vertex form

1 standard

2. Write in vertex form by completing the square. Find the vertex and the y-intercept.

a) $y = x^2 - 4x - 10$ y-intercept (0,C) (0,-10) y= x2-4x-10 b=-4/==-4=-2/(-2)=4 1 FCX)=(X-2)2-14

(Y-2)2=14

b) $y = x^2 + 6x - 8$

Form