MTH 1825 Practice Quiz for the Vertex of a Quadratic Function

1.	Find the <i>x</i> -intercept(s) and the coordinates of the vertex for the parabola $y = -x^2 - 4x + 5$.
	<i>x</i> -intercept(s):vertex:
2.	The cost C (in dollars) of manufacturing x chairs at Kaitlin's Furniture Factory is given by the function $C(x) = 0.6x^2 - 324x + 55{,}912$.
	a. How many chairs must be made to minimize the cost?
	Answer:
	b. What is the minimum cost of manufacturing chairs?
	Answer:
3.	A ball is thrown vertically upward. After t seconds, its height h (in feet) is given by the function $h(t) = 112t - 16t^2$. After how long will it reach its maximum height?
	Answer: