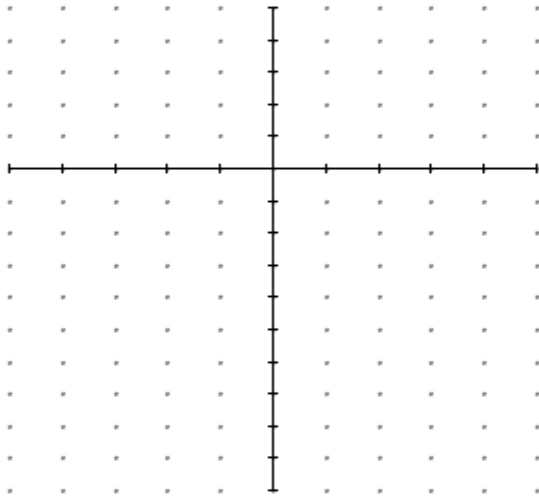


Quiz #10

Directions: Please show all your work since partial credit is given. Answers without the necessary work may receive no credit. Remember to relax and have fun!

1. Graph $Q(x) = x^2 - 2x - 8$. Make sure to find and label all intercepts, the axis of symmetry, and the vertex.



- a) Vertex: _____
- b) Axis of Symmetry: _____
- c) Max/Min Value: _____
- d) y -intercept: _____
- e) x -intercept(s): _____
- g) Domain: _____
- h) Range: _____

2. A ball is thrown into the air. Its height (in feet) t seconds later is given by $h(t) = 80t - 16t^2$.

a) When does the ball reach its maximum height? _____

b) What is the ball's maximum height? _____