

Applications involving Quadratic Equations

Name _____

Show all work to receive full credit

Solve the problem. Round your answer to the nearest tenth, when appropriate.

- 1) A toy rocket is shot vertically upward from the ground. Its distance in feet from the ground in t seconds is given by $s(t) = -16t^2 + 64t$. At what time or times will the ball be 48 ft from the ground?

Solve the problem.

- 2) A projectile is thrown upward so that its distance (in feet) above the ground after t seconds is given by $h(t) = -10t^2 + 300t$. What is its maximum height and the time it takes to reach this height?