Flight of a Projectile: Addendum

Name: _____

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Period:

A projectile's height is defined by: $h(t) = -16t^2 + v_0t + h_0$, where v_0 is the initial velocity (ft/sec) and h_0 is the initial height (feet). Use the given information to (a) sketch a diagram, (b) write an equation, (c) locate the highest point of the projectile and (d) calculate the time at which the projectile hits the ground. Use MATHguide's online lesson for help.

1) Use the link below for your problem.

   http://www.mathguide.com/cgi-bin/quizmasters2/FP.cgi

2) A small projectile was sent up in the air at 1800 ft/sec at ground level. In addition to the steps (a) – (d), determine at what time the projectile reaches 5280 feet (1 mile). There are two answers to this question.