P12

Projectile Motion – continued

Example 1:

A projectile was launched with a velocity of 25 m/s 20° **<u>below horizontal</u>**.

A) When does it hit the ground 14m below the launching level?
B) What is its final velocity? (Vector notation, magnitude, direction.)
C) Where does it land?

Example 2:
An object is ejected at 45.0m/s 70°above horizontal. It lands 42 m **above** its launching point.

A) How much time does the object spend above ground?
B) What is the object's maximum height?
C) What is the shortest distance between the launching and landing point?