LSN #22 Answers

Lesson 22 - Motion in Space II

Complete last lesson's problems and review the lesson objectives.

Problem Solving Problems

1. Consider Problem Solving Problem 1 from the previous lesson. Add to the scenario a wind component that is blowing horizontally, in a direction directly opposite to the direction of the projectile launch. How would you change the kinematics equations you developed in order to compensate for a wind component?

$x(t) = x_0 + (V_0 \cos\theta - V_{wind})t$

$y(t) =$ No change

ANS.