



3. A potato has been fired at an angle and its position function follows the parabola  $y = -0.0032x^2 + x$ , where  $x$  and  $y$  are measured in feet. What is the length of its flight path?

4. Another potato has been fired! This time, a bystander says “a potato has been fired straight into the air.” Using Newtonian physics and the fact that its time of flight is exactly 6.25 seconds, you determine that the potato has a velocity function  $v(t) = -32t + 100$  ft/sec. What is the length of its flight path?