

Agenda/Objectives/Notes Calculus Test 2.1 – 2.2

Today's Agenda

1. Review assignment due
2. Correct quiz
3. Review for test 2.1 – 2.2
4. Test 2.1 – 2.2

Some Review

1. I shot an arrow in the air. Where it landed I know not where. The things I do know is that I shot it from ground level with an initial velocity of 75 feet/second. What will the velocity be after 1.5 seconds? How about after 4 seconds? What do these two velocities mean? (The position function is $s(t) = -4.9t^2 + v_0t + s_0$ for meters per second and $-16t^2 + v_0t + s_0$ for feet per second)
2. Use the limit process to find the derivative: $g(t) = -3t^2 + 2t$
3. Find the derivative for: $h(m) = \sqrt{9 - 3m}$
4. Find an equation of the line parallel to $3x - 9y + 3 = 0$ and tangent to $f(x) = -\frac{1}{3}x^3$.
5. Find the slope of the graph for $f(x) = -\frac{12}{x^4}$ at $x = 2$.