

Ex 1) If
$$s(t) = t^3 - 3t^2 + 12t + 4$$

Find $v(3)$
 $v(3) = 3/3^3 - 6/3 + 12 = 21$
Find/does $v(t) = 0$? $3t^3 - 6t + 12 = 0$
 $3(t^2 - 2t + 4) = 0$
Find the speed
 $at t = 1, 2, 3$
Find a(1)
 $q(t) = b(t) - b = 0$

Ex 2) An object is thrown in the air. Its height is feet/sec) modeled by $h(t) = 160t - 16t^2$. When does it reach its highest point? 160-322=0 160=322 t=5sec V(t)=160-32t How high did it go? $h(5) = 160(5) - 16(5)^2 = (100f)^2$ How long was it in the air? 0=160+76+2 0=16+(10-+ 10-2=0 t=102 What is the average velocity [0,2]? $\frac{\Delta S}{\Delta t} = \frac{\Delta h}{\Lambda t} = \frac{h(2) - h(0)}{2 - \Lambda}$ h(2)=16 -(1284)



