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and Solutions (Tutorial Videos) -YouTube Physics 1 Problems Solutions ienniferbachdim.com Kinematic equations relate the variables of motion to one another, Each equation contains four variables. The variables include acceleration (a), time Page 12/40

(t), displacement (d), final velocity (vf), and initial velocity (vi). If values of three variables are known, then the others can be calculated ...

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a = (444 m/s - 0
m/s)/(1.83 s) a = 243
m/s 2. d = v i *t +
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0.5*a*t 2. d = (0 m/s)*(1.83 s)+ 0.5*(243 m/s 2)*(1.83 s) 2. d = 0 m + 406 m. d = 406 m (Note: the d can also be calculated using the equation v f 2 = v i 2 + 2*a*d) Return to Problem 6

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× length e Unit of area = (m)(m) = = thesquare metre Q2 = (Unit of m)(Unit of v) = (kg)(m s - 1) = kgm s - 1 = thekilogram metre per second Q3 Unit of a = = = m s - 2 = themetre per second squared Q4 kg m -3, density = Unit of density = = kg m -3Q5P = Unit of P =Page 26/40

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find the velocity as a function of time by taking the derivative of the dis-placement with respect to time. dx'(t) = [x0 sin(t)]+)] dt = x0 cos(t+)But we don 't want the velocity as a function of t. we want it as a function of the position x.

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