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2017-01-17 & Phys & ZZ4 & WKI Notes & Z'8 \\

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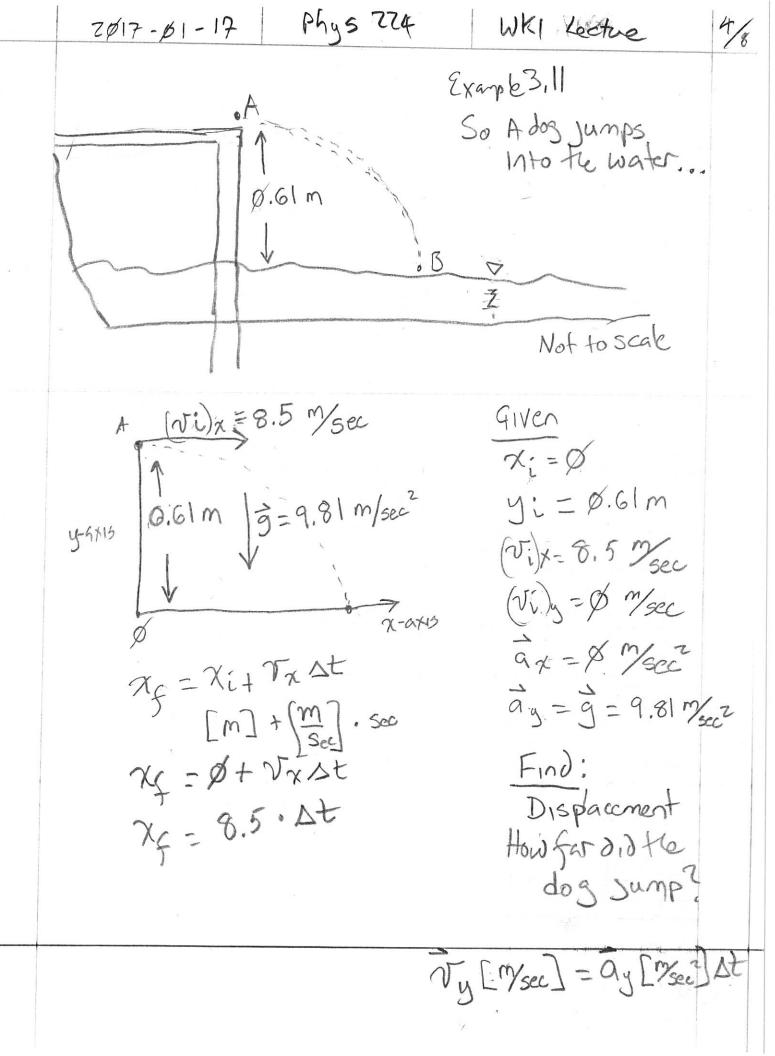
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WKI Notes 3/8 2017-01-17 Write out D in Vector notation. IV magnifude à angle D= Xaxis, yaxis  $= -3\hat{c} + 6\hat{J}$ mag  $\vec{D} = (-3^2 + 6^2)^{\frac{1}{2}}$  $=(9+36)^{\frac{1}{2}}$ = (45) = = 3 \( \overline{5} \) - G.7 tan 0 = OPP ads 0 = tan (-2) =-63.4°+180 = 116.6° or -1.107 rad



2017-01-17 Phys 224 Wkl Jectus タテ=タi+(で), ムt- z g (ムt) [m] = [m] + [m/sec · sec] + [m/sec · sec] Ø = Ø.61 + Ø. Dt - = (9.81) Dt2 -0.61 = -= (9.81) st Ø.61 = - (9.91) st2 Ø.61 = (9.81) St  $\left(\frac{2.8.61}{9.81}\right) = \Delta t^2$  $\left(\frac{2.0.61}{9.41}\right)^{\frac{1}{2}} = \Delta t$ (1.72 /2 = st 0,353= Dt Xf= 8,5 Dt 79 = 4.5 (0.353) 75=3.0 m

2017-01-17 Phys 224 WhI leche Imagine dog Jumping on mars Assume gmars = 1 gearth If everythan else is the same how long is the day Airborne and what is do = displacement of Vi=8,5 m/s  $\int_{0}^{\infty} \frac{1}{3} = \frac{1}{3} (9.81)$ Given is as yf=yi+(of), st- 2 gmus st Ø.61 = 9.81 Dt2 6.0.61 = At 0,612 = at

2017-01-17 Phys 224 Wk 1 Lecture

Xf = Xi + V Dt

Xf = 0 + 8.5.0.612

Xf = 15.2 m

A regulation dock jumping dog on Mass

Will be airborn for 0.61 sec and

have a displacement of 5.2 m

on Earth the dog will be airborn

for 0.35 sec and will have a

displacement of 3 m

Homework: Send me a text mess 605-209-9974 with your Name