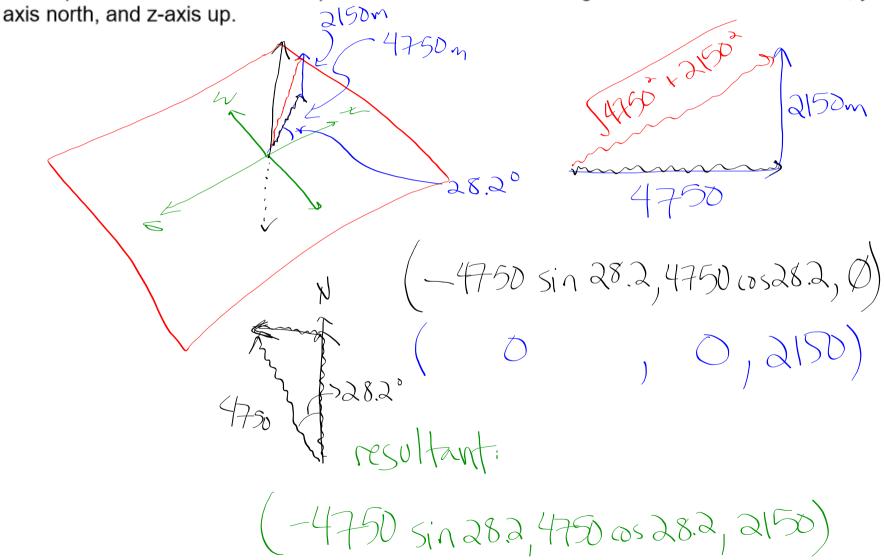
Homework Quiz Friday 10/16

- · Around 15 mins.
- . You can use your homework
- · Quiz will be similar (in style & complexity) to a honework problem.
- · Material: reviewed last week

Match motion lab report: me evidence of learning HW Review 101415 5th.notebook October 15, 2015

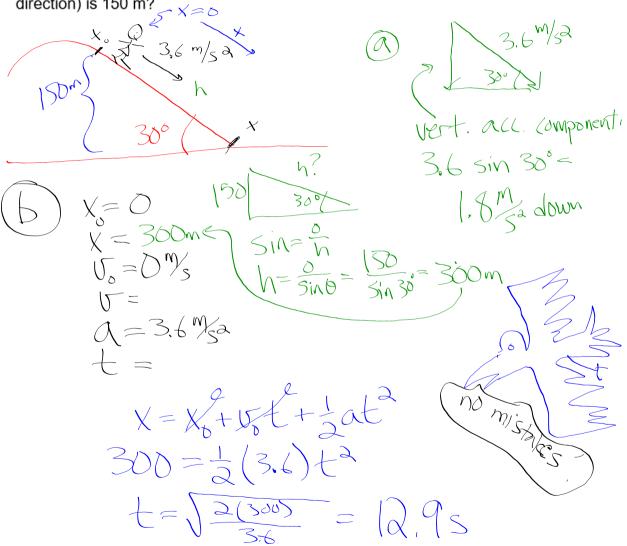
17. The summit of a mountain, 2150 m above a camp, is measured on a map to be 4750 m horizontally from the camp in a direction 28.2° west of due north. What are the components of the displacement vector from camp to summit? What is its length? Choose the x-axis east, y-axis parts, and z axis up.



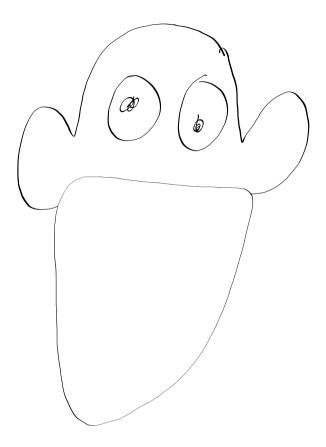
HW Review 101415 5th.notebook October 15, 2015

12. A skier is accelerating down a 30.0° hill at 3.60 m/s².

- a) What is the vertical component of her acceleration?
- b) How long will it take her to reach the bottom of the hill, assuming she starts from rest and accelerates uniformly, if the elevation change (elevation is a measure of the vertical direction) is 150 m?



HW Review 101415 5th.notebook October 15, 2015



Preliminary Lab:

· We can look at the motion of objects as independent, perpendicular components —) We can use the big 4 completely separately for X— and y—variables (linked by t)

