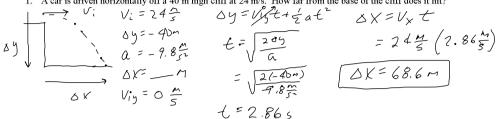
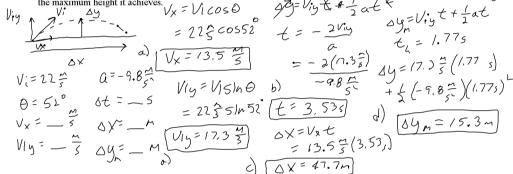
## Honors Physics Test - Ch. 3 - practice

Name WARD

1. A car is driven horizontally off a 40 m high cliff at 24 m/s. How far from the base of the cliff does it hit?



2. A football is kicked from ground level at 22 m/s at a 52° angle from the ground. (a) Find the x and y components of its velocity (b) Find its hang time (c) find how far away it hits the ground without using the range equation (d) find the maximum height it achieves.



3. An artillery shell is fired from a valley up onto a 300 m high cliff. If it leaves the gun at ground level at 650 m/s at a 72° angle, find (a) its hang time (b) how far away is it along the x-axis it hits the cliff.