Kinematics / Set 3 / Animation 4

Name _____ Class _____

<Show all work on calculations. Include proper units. Explanations require complete sentences.>

1) How fast would the rabbit need to jump horizontally $(V_{iy} = 0$ m/s)to land on the carrot ?

2) If the rabbit jumps with $V_{iy}=+40$ m/s, what V_{ix} would cause the rabbit to land on the carrot ?

3) If the rabbit jumps with $V_{ix}=- 25$ m/s, what V_{iy} would cause the rabbit to land on the carrot ?