

Name Surname:	Signature:
Department:	Number:

3) A projectile is given an initial velocity with magnitude  $v_0$  at an angle  $\phi$  above the surface of an incline, which is inclined at an angle  $\theta$  with the horizontal. What is the distance, measured along the incline, from the launch point to where the projectile strikes the incline? Your answer should be in terms of  $v_0$ ,  $g$ ,  $\theta$ , and  $\phi$ .

