

### Homework (LE 3)

#### Problem P6

It is desired to have the package shown deposited on the horizontal surface with a speed of 1.5 m/s. Knowing that  $r = 0.3$  m, (a) determine the required initial speed  $v_0$  when the first loop is used, (b) show that this requirement cannot be fulfilled by the second loop, (c) determine the smallest  $v_0$  so that the package will be deposited on the horizontal surface when the second loop is used.

