

PHY121 Summer 2018

Pre-work for Wednesday 5/30

1. Repeat Problem 1 of the pre-work for today (Tuesday), this time finding the final kinetic energies of each particle.
2. A trophy being shown off by a careless athlete slips from the athlete's hands and drops on his foot. Estimate:
 - (a) The change in potential energy of the trophy if the floor level is the origin ($y = 0$) of our coordinate system.
 - (b) The change in potential energy of the trophy if the athlete's head is the origin of our coordinate system.
 - (c) The final velocity of the trophy if the floor is the origin of our coordinate system.
 - (d) The final velocity of the trophy if the athlete's head is the origin of our coordinate system.