Engineering Physics I – Fall 2015 Quiz 9 – November 19, 2015 Name:

1. (64 points) Complete the following table:

Linear/translational motion	Rotational motion analogue
X	
V	
a	
m	
F = ma	
F = dp/dt	
p = mv	
$KE = \frac{1}{2}mv^2$	

2. (12 points) True or False Angular momentum is conserved if there is no net

torque on the system

3. (12 points) True or False Angular momentum is an intrinsic property of a moving

object

4. (12 points) True or False Friction must act on an item for it to roll without

slipping