

Engineering Physics I – Fall 2015

Quiz 3 – September 24, 2015

Name:

1. Convert $2 \times 10^3 \text{ cm}^2$ into m^2

a) $2 \times 10^1 \text{ m}^2$

c) $2 \times 10^0 \text{ m}^2$

b) $2 \times 10^{-1} \text{ m}^2$

d) $2 \times 10^{-2} \text{ m}^2$

2. Which is true during uniform circular motion? (circle all that apply)

$a_{//} = 0$

$a_{\perp} = 0$

$|\mathbf{a}| = 0$

$v_{\varphi} = 0$

$v_{\rho} = 0$

3. True or false

To find the angle for which a projectile will reach its maximum horizontal distance (range) you need to know the projectile's initial velocity.

4. True or false

Increasing a projectile's initial velocity increases the maximum horizontal distance (range) but not the maximum height.