## Hw04a

Wednesday, January 25, 2017

11:25 AM

$$1. a)H = \left(\frac{v_{o} \sin \theta}{2g}\right)^{2}$$

2. 
$$v_0 = \sqrt{\frac{gR}{2 \sin \theta \cos \theta}}$$
,  $H = \frac{R}{4 \sin \theta \cos \theta}$ 

3. 
$$y_D = y_B = H - \frac{1}{2}g \frac{D^2 + H^2}{V_0^2}$$