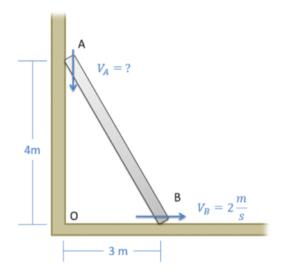
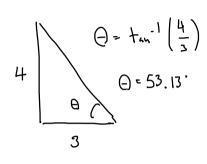
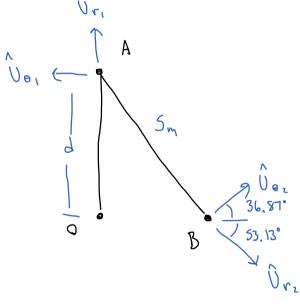
Problem 3

A ladder is propped up against a wall as shown below. If the base of the ladder is slideing out at a speed of 2 m/s, what is the speed of the top of the ladder?







$$\frac{1}{\sqrt{B}} = \sqrt{A}_{0} + \sqrt{B}_{A}$$

$$(2) \hat{i} = \hat{i} \hat{j}_{v_{1}} + \sqrt{2} \hat{\theta}_{z} \hat{j}_{\theta_{z}}$$

$$2 \rightarrow = \hat{d} \uparrow + (5)(\hat{\theta}_{z}) \stackrel{?}{\sim} 36.87^{\circ}$$