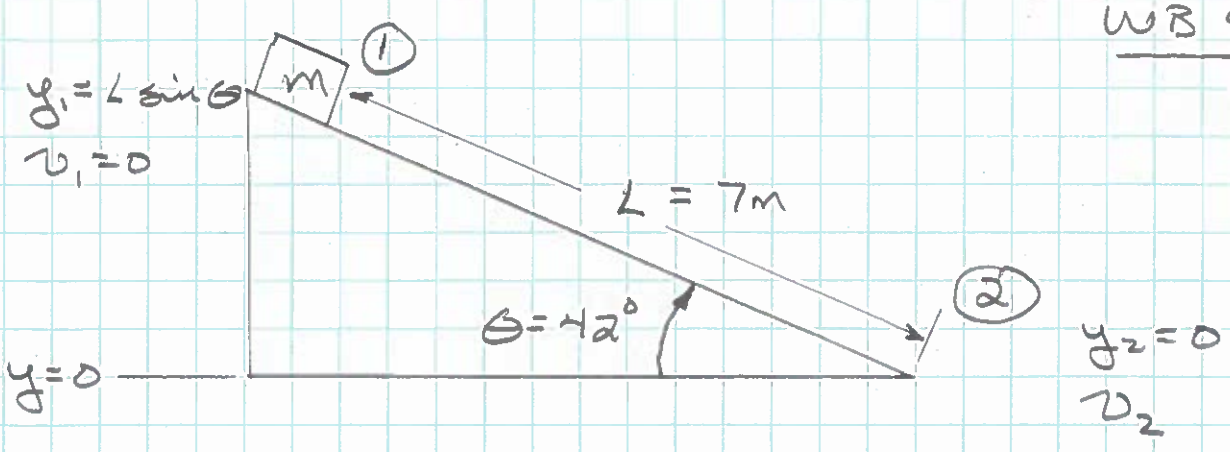

Conserve energy $1 \rightarrow 2$:

$$\Delta E_{mech} = \Delta K + \Delta U_g = 0$$

$$\frac{1}{2}m(v_2^2 - v_1^2) + mg(y_2 - y_1) = 0$$

$$\frac{1}{2}v_2^2 - gL\sin\theta = 0$$

So, $$v_2 = \sqrt{2gL\sin\theta}$$

$$v_2 = 9.58\ m/s$$