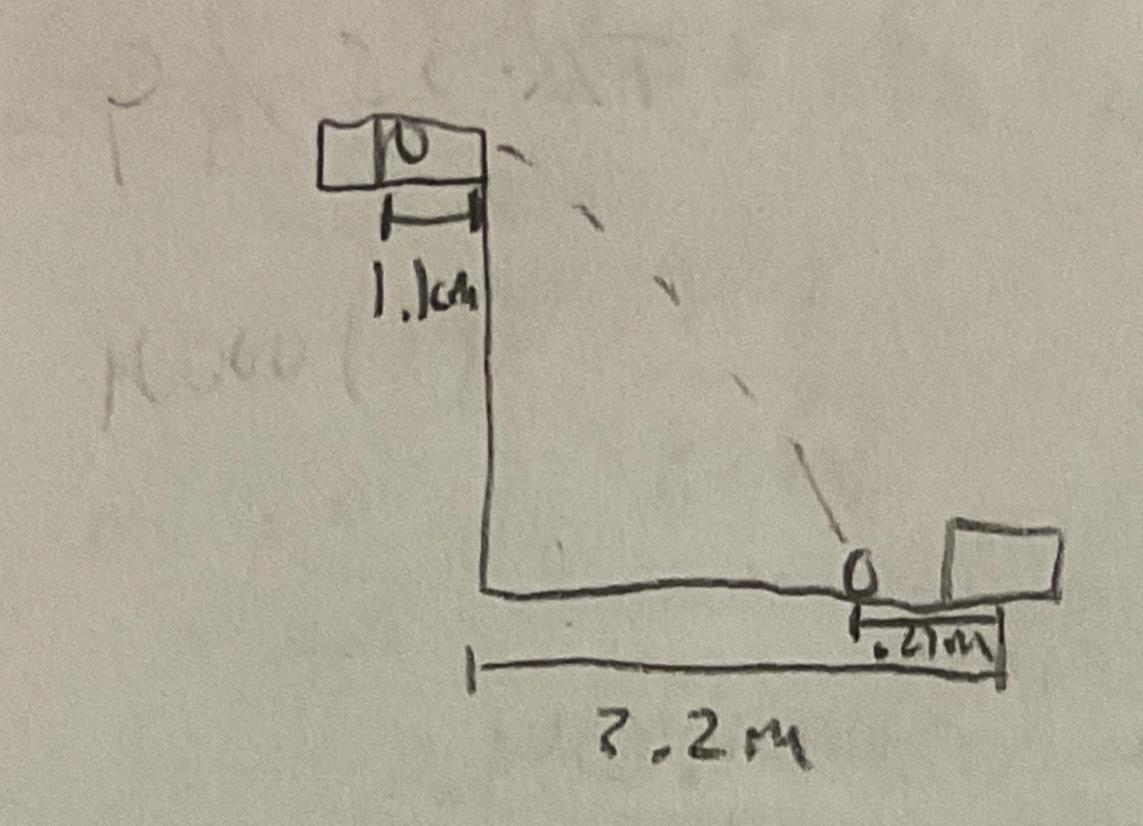
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$$V_{4} = V_{1} + QT$$
 $V_{4}^{2} - V_{1}^{2} = 2a\Delta x$
 $\Delta x = V_{1} + \frac{1}{2}a^{2}$
 $\Delta x = V_{1} + \frac{1}{2}a^{2}$

3 m = 3 m v2