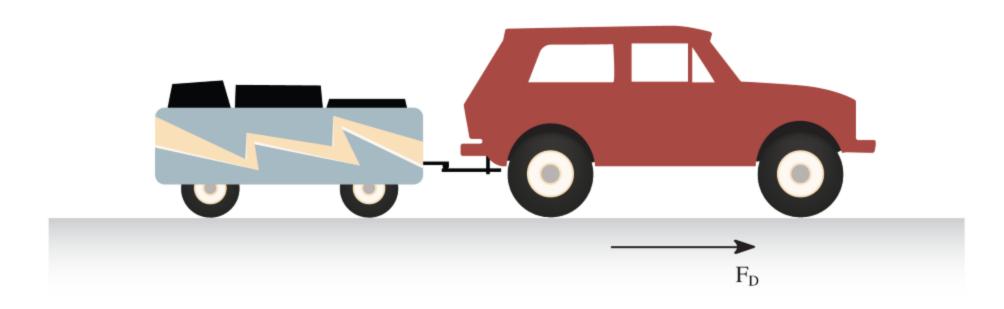
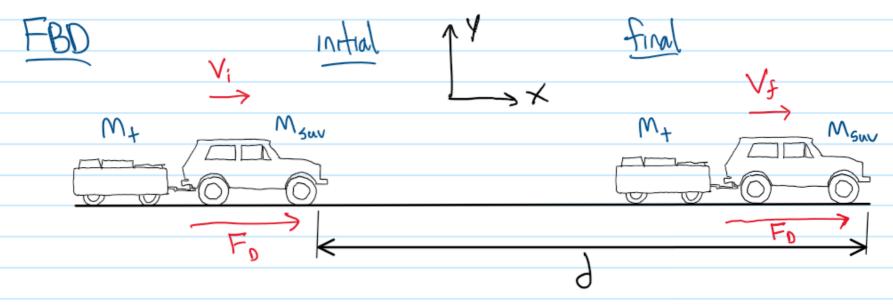
## 21-P-WE-GD-005





A mous red SUVis towing a M+ trailer. The SUV is initially moving at y, mls, when the driver steps on the gas, a constant driving force Fo N is applied.

After the SUV moves of m, what is the final velocity v;?



given My, Mour, Vi, Fo, d

Find Vg

-> sum the masses

W = W++ Wenn

Work-Ever of

2mv; 2+Fod= 2mv;

$$V_s = \int \frac{V_2 \, m \, v_i^2 + F_b d}{V_2 \, m} = \int V_i^2 + \frac{2F_b d}{m}$$