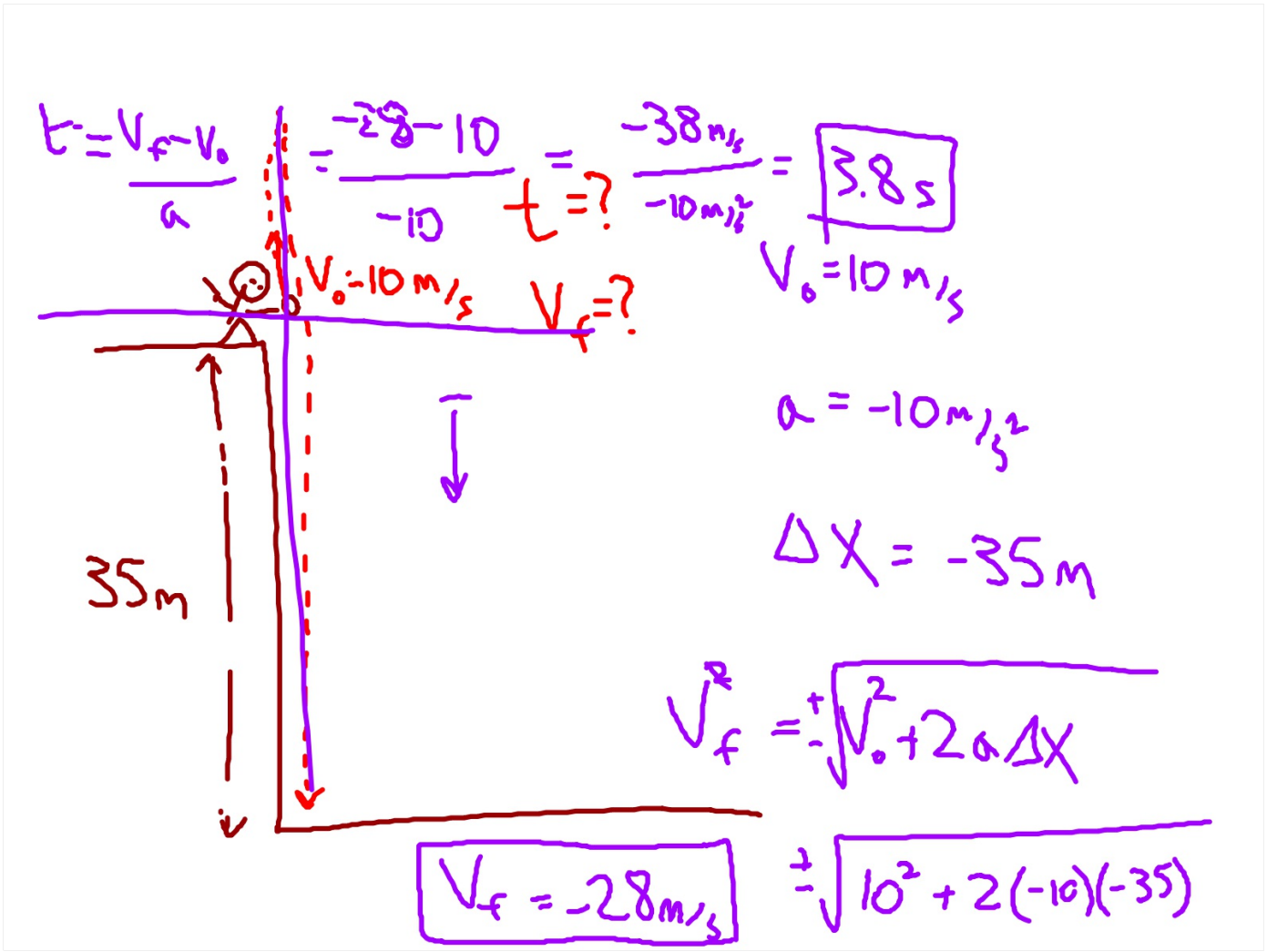
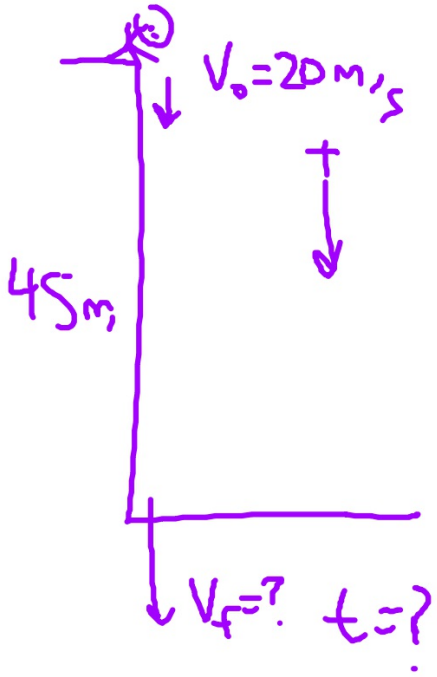

$t = \frac{V_f - V_0}{a}$
$= \frac{-28 - 10}{-10}$
$t = ?$
$= \frac{-38\ m/s}{-10\ m/s^2}$
$= \boxed{3.8\ s}$
$V_0 = 10\ m/s$
$V_0 = 10\ m/s$
$V_f = ?$
$a = -10\ m/s^2$
$\Delta X = -35\ m$
35 m
$V_f = \pm\sqrt{V_0^2 + 2a\Delta X}$
$\pm\sqrt{10^2 + 2(-10)(-35)}$
$\boxed{V_f = -28\ m/s}$



$$V_f^2 = V_0^2 + 2a\Delta x$$

$$V_f = \sqrt{20^2 + 2(10)(45}$$

$$V_f = 36\ m/s$$

$$\frac{16}{10} = 1.6s$$

$$t = \frac{V_f - V_0}{a} = \frac{36-20}{10}$$