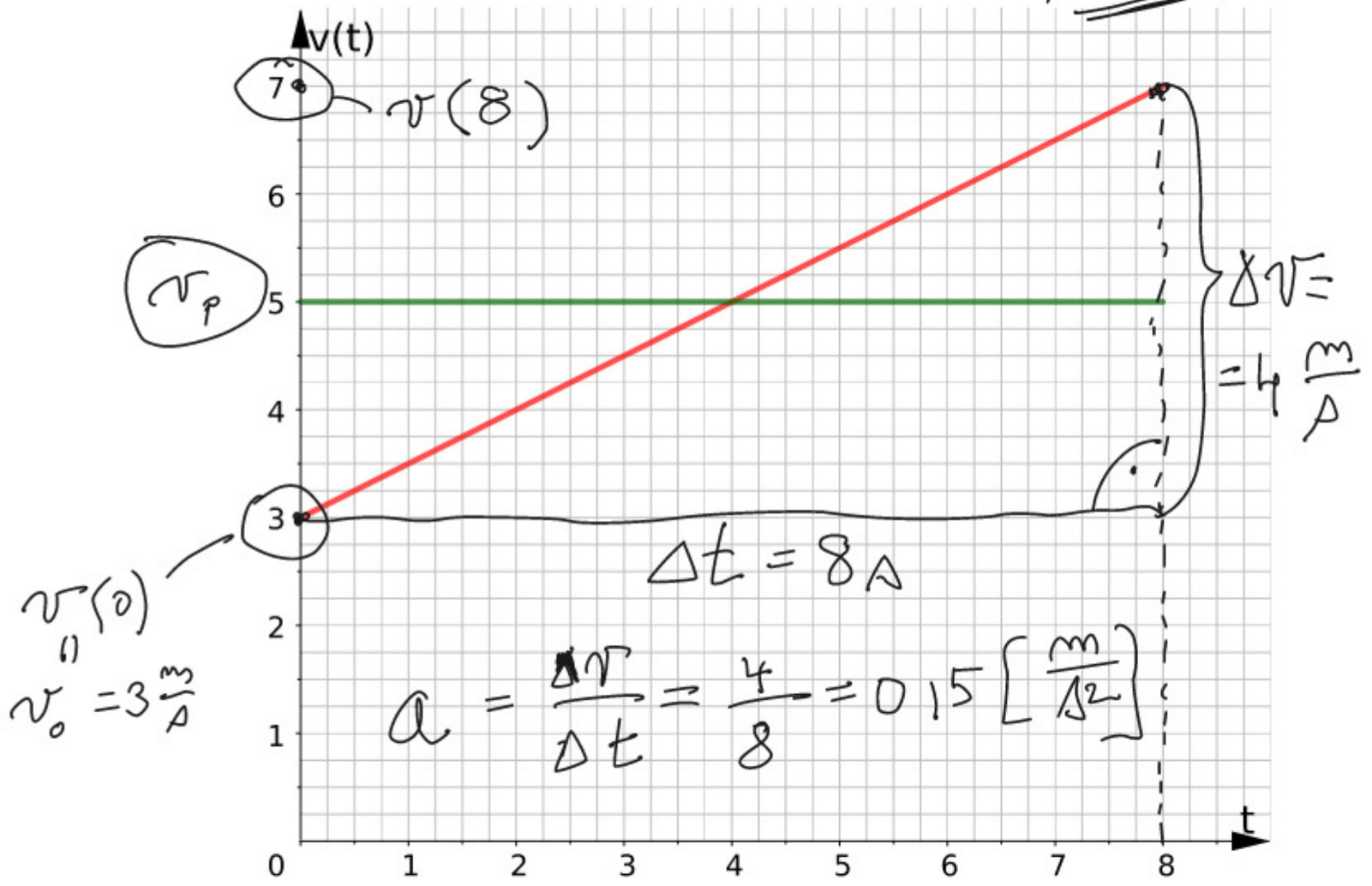
$$v(t) = v_0 + a \cdot t$$

ALEŠ



$$s = 3 \cdot 8 + \frac{1}{2} \cdot \frac{1}{2} \cdot 8^2 = 24 + 16 = 40 \text{ [m]}$$

$s(8)$

Dráha RZPP

$$v_p = \frac{v_0 + v(t)}{2}$$

$$v_p = \frac{CD}{CC'}$$

$$s = \frac{v_0 + v(t)}{2} \cdot t$$

$$s = \frac{v_0 + v_0 + at}{2} \cdot t$$

$$s = \frac{2v_0 + at}{2} \cdot t$$

$$s = \left(v_0 + \frac{at}{2}\right) \cdot t$$

$$s = v_0 t + \frac{1}{2} a t^2$$