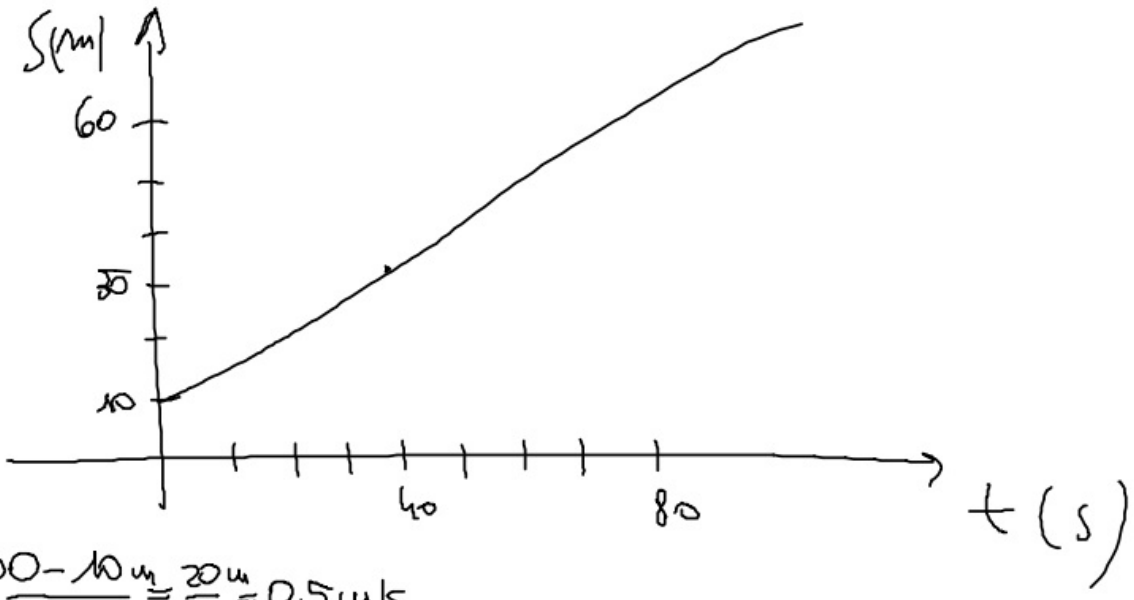


$V = \frac{30-10\,m}{40\,s} = \frac{20\,m}{40\,s} = 0{,}5\,m/s$

$S = S_0 + Vt$

$S = 10\,m + (0{,}5\,m/s)\cdot t \quad S = 10 + 0{,}5t$

S con $t = 56\,s$

$S = 10 + 0{,}5 \cdot 56 = 38\,m$

$S = 38\,m$

t con $S = 45\,m$

$45 = 10 + 0{,}5t$

$35 = 0{,}5t$

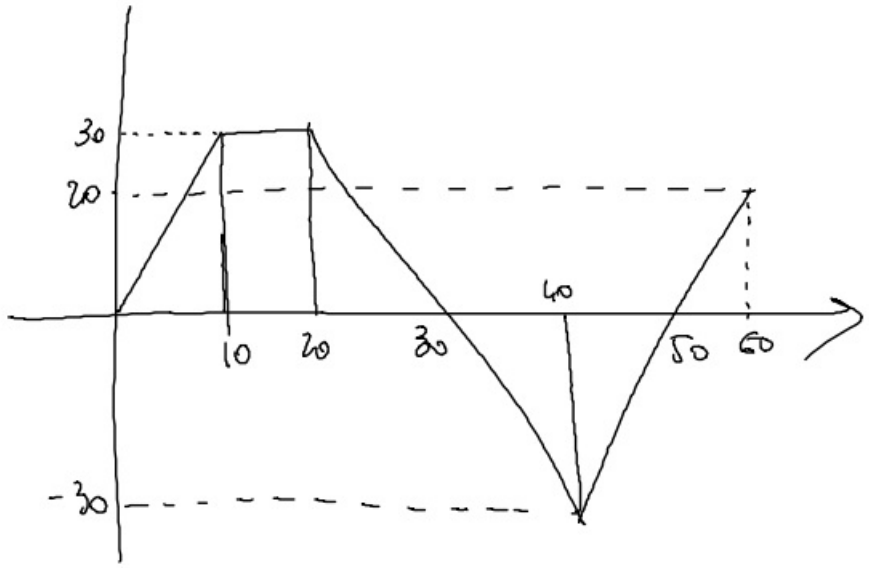
$t = \frac{35}{0{,}5} = 70\,s$

t con 50 m dist.

$60 = 10 + 0{,}5 \cdot t$

$50 = 0{,}5t$

$t = \frac{50}{0{,}5} = 100\,s$



$V_1 = \frac{30}{10} = 3\ \frac{m}{s}$ $V_2 = 0$ $V_3 = \frac{-30-30}{40-20} = \frac{-60}{20} = -3\ \frac{m}{s}$

$V_4 = \frac{20+30}{60-40} = \frac{50}{20} = 2{,}5\ \frac{m}{s}$ $V_m = \frac{20\ m}{60} = 0{,}\overline{3}$

$t_0 = 0\ s$ $t_f = 20\ s$

$S_0 = 0\ m$ $S_f = 30\ m$

$V_m = \frac{30}{20} = 1{,}5\ m/s$

$t_1 = 20\ s$ $t_2 = 50\ s$

$S_1 = 30\ m$ $S_2 = 0\ m$

$V_m = \frac{-30}{30} = -1\ m/s$

$V_1 = 15\ m/s \rightarrow S = Vt = 15 \cdot 600 = 9000\ m$

$t_1 = 10\ min. \rightarrow 600\ s$

$V_2 = 25\ m/s \rightarrow *V = \frac{S}{t} \cdot * \quad S = Vt = 25 \cdot 300 = 7500\ m$

$t_2 = 5\ min \rightarrow 300\ s$

V_m?

$V_m = \frac{9000+7500}{600+300} = 18\ m/s$

$S_A = 3{,}6t - 8$

$S_B = -1{,}2t + 28$

d. con $t=0$ $\quad 28 - (-8) = 36\,m$

t es incrocio

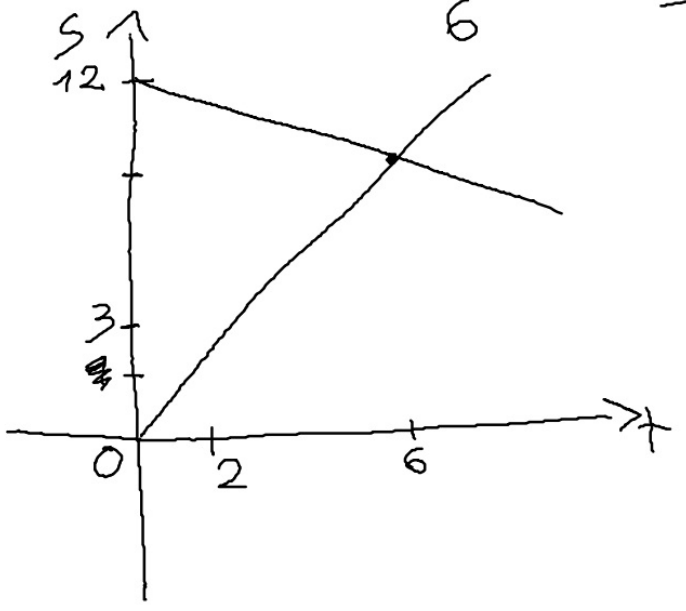
$3{,}6t - 8 = -1{,}2t + 28$

$V_A = 1{,}5 \frac{m}{s}$

$S_{OA} = 0$

$S_{OB} = 12\,m$

$S = 1{,}5t$ $\quad S = 1{,}5 \cdot 6 = 9\,m$

$S = Vt + 12$ $\quad 9 = V \cdot 6 + 12$

$V = \frac{-3}{6} = -0{,}5 \frac{m}{s}$