

N. 48 PAG. 167

a) ore 8.00 parte A  $v_A = 50 \text{ km/h}$

b) ore 9.00 parte B  $v_B = 60 \text{ km/h}$

$t = 0 \text{ h}$  è l'istante in cui parte B (e dunque A sarà nella posizione iniziale  $S_{0A} = 50 \text{ km}$ )

$$A \Rightarrow S = (50 \text{ km}) + \left(50 \frac{\text{km}}{\text{h}}\right)t \Rightarrow \begin{cases} S = 50 + 50t \end{cases}$$

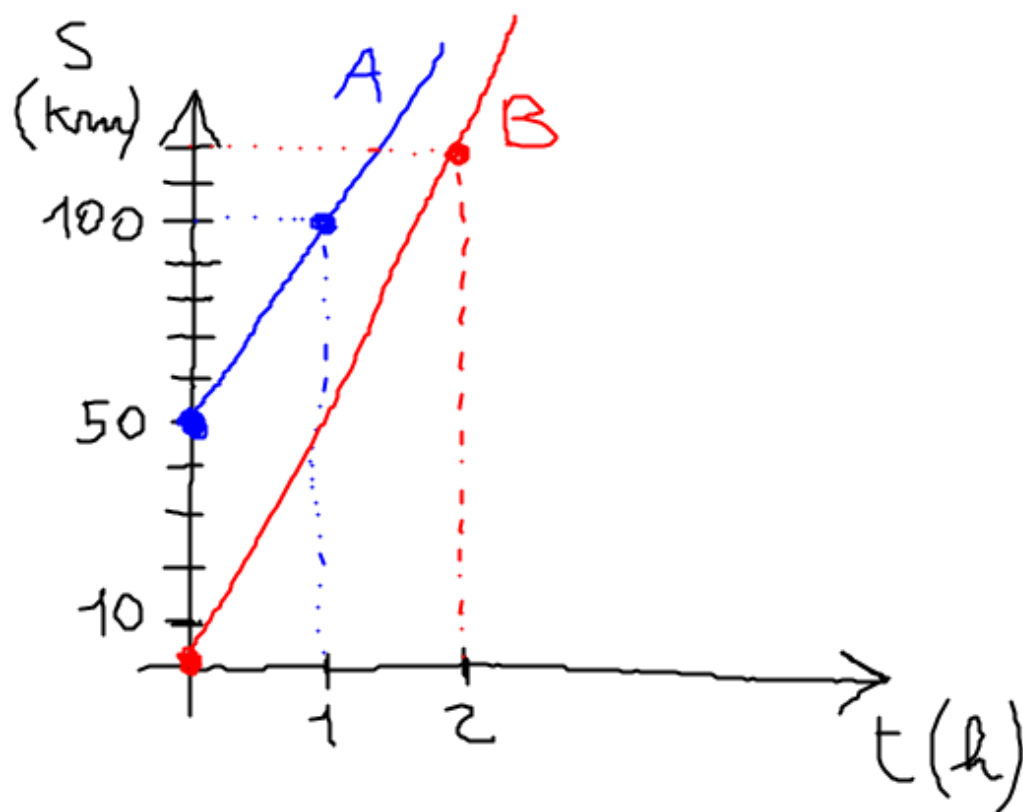
$$B \Rightarrow S = \left(60 \frac{\text{km}}{\text{h}}\right)t \Rightarrow \begin{cases} S = 60t \end{cases}$$

$$\begin{cases} S = 50 + 50t \\ S = 60t \end{cases} \quad \begin{cases} 60t = 50 + 50t \Rightarrow 10t = 50 \\ \Downarrow \\ t = 5 \text{ h} \end{cases}$$

$$\begin{cases} t = 5 \text{ h} \\ S = 60 \cdot 5 = 300 \text{ km} \end{cases}$$

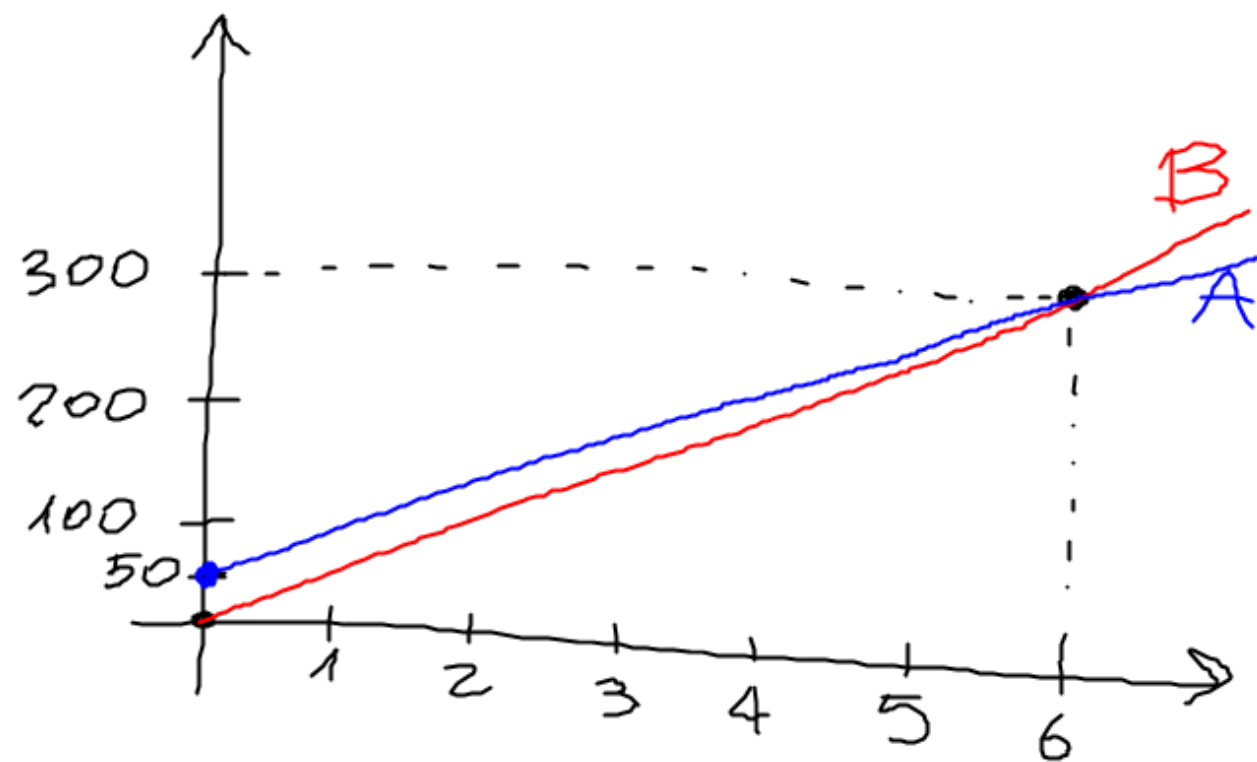
DOPO QUANTE ORE  
DALLA PARTENZA DI A  
SI INCONTRANO?

$$5 \text{ h} + 1 \text{ h} = 6 \text{ h}$$



A	
t	S
0	50
1	100
2	150

B	
t	S
0	10
1	60
2	120



N 47}



$$1) \begin{cases} S = 80t \\ 80t = 650 - 100t \end{cases}$$

$$2) \begin{cases} S = 650 - 100t \end{cases}$$

$$180t = 650 \Rightarrow t = \frac{650}{180} = 3,6\bar{1} \text{ h} = 216,6 \text{ min} \approx 217 \text{ min}$$

distance da Roma  $S = 80 \cdot 3,6\bar{1} \approx 289 \text{ km}$

A)  $S = 80t$

B)  $S = 650 - 100t$

A)

$t$	$S$
0	0
1	80

B)

$t$	$S$
0	650
1	550

