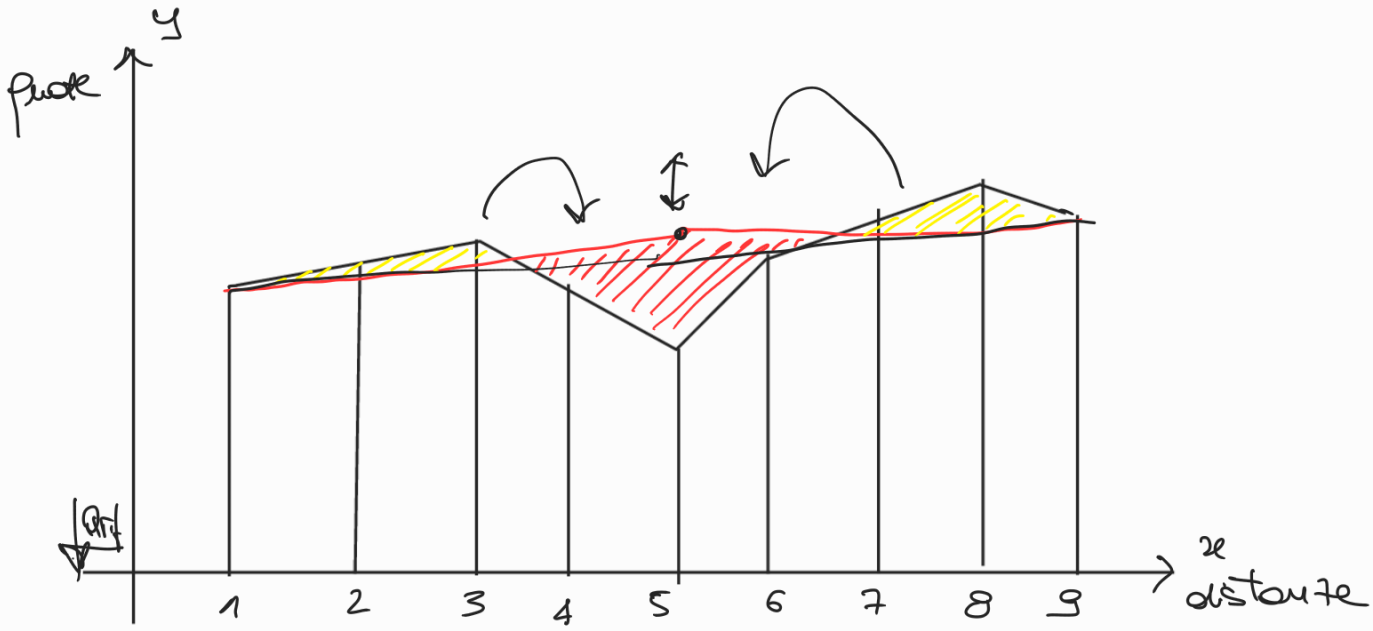
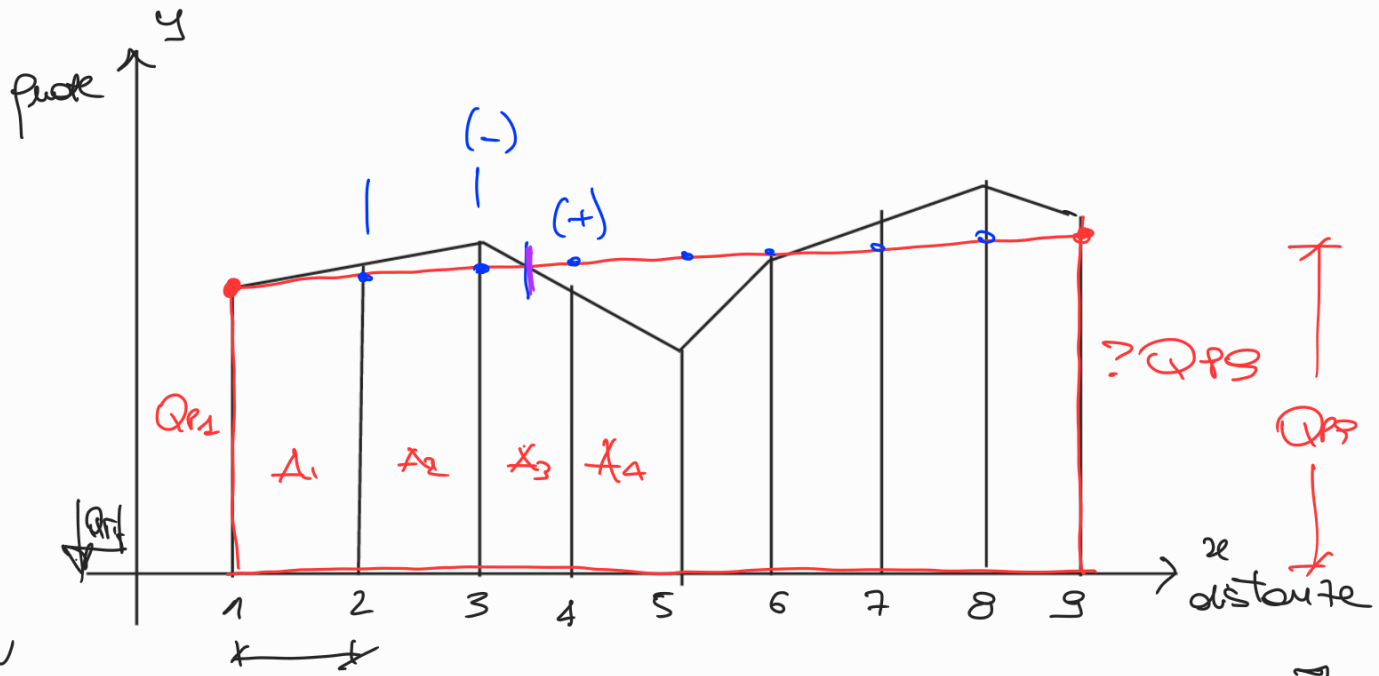
LIVELLETTE di COMPENSO



1) UNA LIVOLETTA CON QUOTA DI PROGETTO INIZIALE ASSEGNATA



e.n

$Q_{p1} = Q_{t1}$ assegnata

[Q_{p1} = ... m]

e.c Q_{pf} (picchetto 9)

$S_t = \Sigma$ Area trapezi $= A_1 + A_2 + A_3 + \dots A_f$

$$St = \frac{Q_1+Q_2}{2}\cdot \overline{1-2} + \frac{Q_2+Q_3}{2}\cdot \overline{2-3} \dots + \frac{Q_8+Q_9}{2}\cdot \overline{8-9}$$

compenso $A_s = A_R \Rightarrow St = Sp$

Sp = area trapezio inviluppo

$$\begin{cases} Sp = \dfrac{Q^p_1 + Q^p_9}{2}\cdot \overline{1-9} \\ Sp = St \end{cases}$$

→ dist progr.

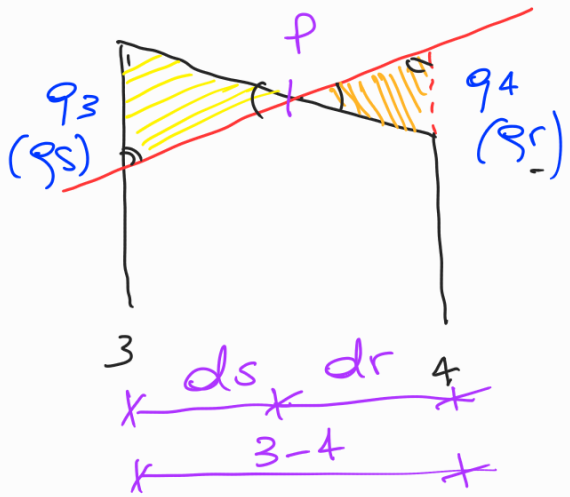
$$\frac{2St}{\overline{1-9}} = \left(Q^p_1 + Q^p_9\right)\cdot \frac{\overline{1-9}}{\overline{1-9}}$$

$$Q^p_f = \frac{2St}{d.tot} - Q^p_1$$

$$pliv = \frac{Q^p_f - Q^p_0}{d.tot}$$

$$Q^p_n = Q^p_0 + pliv\cdot \overline{1-n}$$ (fino a picchetto n)

$$q_n = Q^p_N - Q^T_n$$



$q_S : d_S = q_r : d_r$

$q_S : q_r = d_S : d_r$

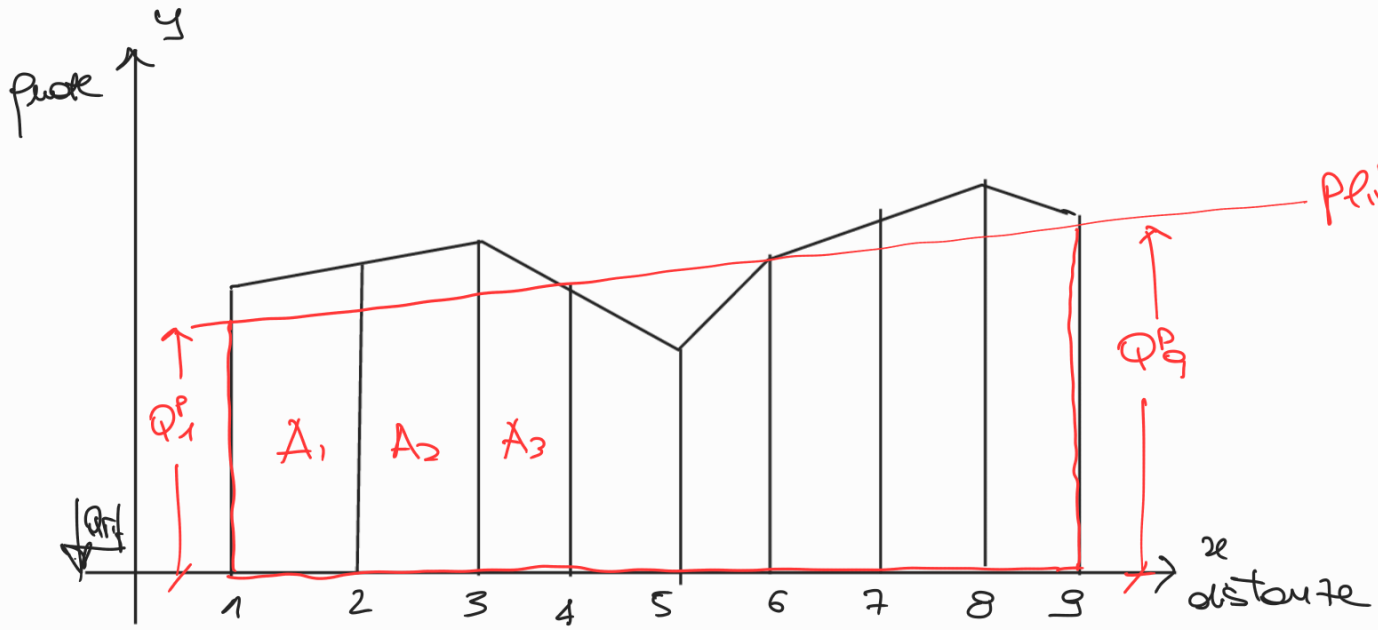
$q_S : (q_r + q_S) = d_S : (d_S + d_r)$

$(d_S + d_r) = d_{pic}$

$$d_S = \frac{|q_S \cdot d_{pic}|}{|q_r + q_S|}$$

$d_r = d_{picch} - d_S$

2) UNA LINEETTA CON PENDENZA ASSEGNATA



e.N
pliv
distpar3
Qti

e.i
Q_{P1}
Q_{Pf}

compenso $St = Sp$ $(As = As)$

$St = A_1 + A_2 + A_3 + \dots A_n$

$$St = \frac{Q^t_1 + Q^t_2}{2} \cdot \overline{1\text{-}2} + \frac{Q^t_2 + Q^t_3}{2} \cdot \overline{2\text{-}3} + \dots \frac{Q^t_8 + Q^t_9}{2} \overline{8\text{-}9}$$

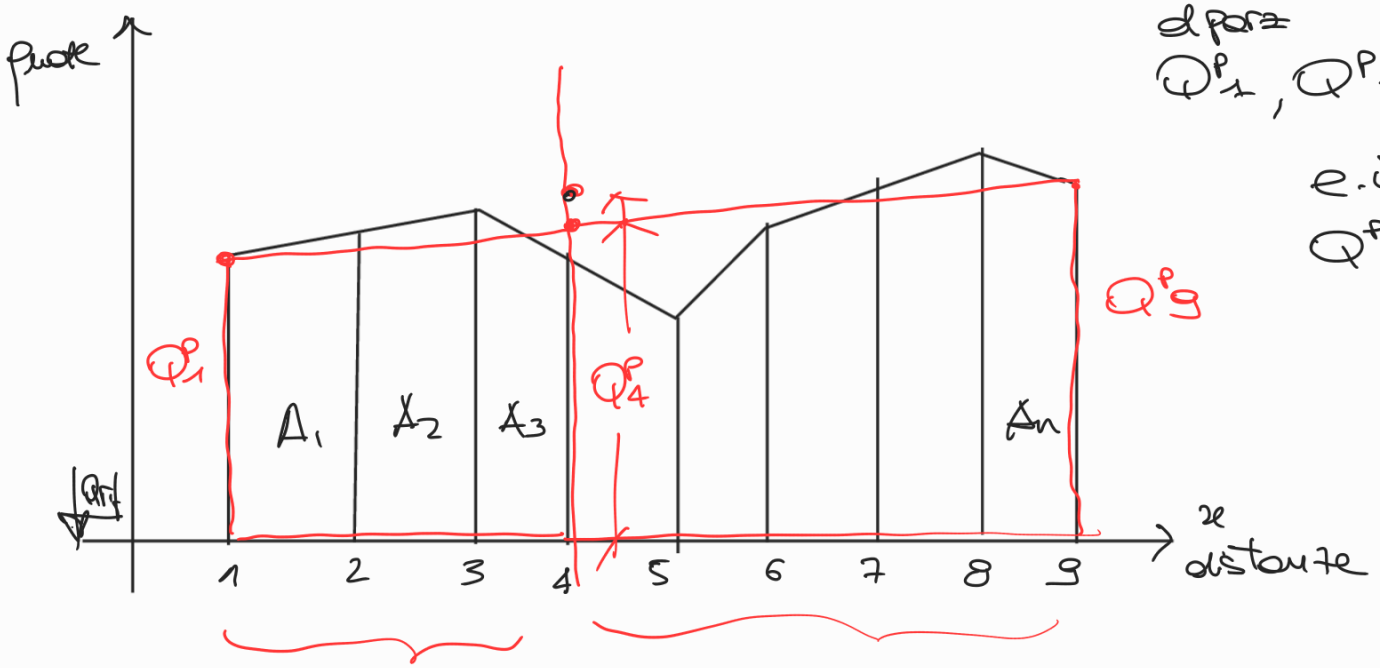
$$\begin{cases} St = Sp = \dfrac{Q^p_1 + Q^p_f}{2} \cdot d_{tot\,(1\text{-}9)} \\ Q^p_f = Q^p_1 + \underbrace{pliv \cdot d_{tot}}_{\Delta 1\text{-}9} \end{cases}$$

$$\frac{2St}{d_{tot}} = Q^p_1 + \left(Q^p_1 + pliv \cdot d_{tot}\right) \frac{d_{tot}}{d_{tot}}$$

$$\frac{2\,St}{d_{tot}} = 2\,Q^p_1 + pliv \cdot d_{tot}$$

$$\frac{2Q^p_1}{2} = \frac{\frac{2St}{d_{tot}}}{2} - \frac{pliv \cdot d_{tot}}{2} = \frac{St}{d_{tot}} - \frac{pliv \cdot d_{tot}}{2}$$

3) DUE LINEE CONSECUTIVE CON QUOTA INIZIALE E FINALE ASSEGNATA



compenso $A_R = A_S \Rightarrow S_t = S_p$

S_t = $\sum$ Aree del terreno $= A_1 + A_2 + A_3 + \dots A_n$

$= \frac{Q^t_1 + Q^t_2}{2} \cdot \overline{1-2} + \frac{Q^t_2 + Q^t_3}{2} \cdot \overline{2-3} + \dots \frac{Q^t_8 + Q^t_9}{2} \overline{8\&9}$

$S_p = \frac{Q^p_1 + Q^p_4}{2} \cdot \overline{1-4} + \frac{Q^p_4 + Q^p_9}{2} \cdot \overline{4-9} = S_t \cdot 2$

$2 \cdot S_t = Q^p_1 \cdot \overline{1-4} + Q^p_4 \cdot \overline{1-4} + Q^p_4 \cdot \overline{4-9} + Q^p_9 \cdot \overline{4-9}$

$2 S_t = Q^p_1 \cdot \overline{1-4} + Q^p_4 (\underbrace{1-4+4-9}_{d\,tot}) + Q^p_9 \cdot \overline{4-9}$

$Q^p_4 \cdot d\,tot = 2S_t - Q^p_1 \cdot \overline{1-4} - Q^p_9 \cdot \overline{4-9}$

$$Q^p_4 = \frac{2S_t - Q^p_1 \cdot \overline{1-4} - Q^p_f \cdot \overline{4-9}}{d\,tot}$$