

# FASCI DI PARABOLE

$$p_1 \quad y = a_1 x^2 + b_1 x + c_1 \quad \longrightarrow \quad y - a_1 x^2 - b_1 x - c_1 = 0$$

$$p_2 \quad y = a_2 x^2 + b_2 x + c_2 \quad \longrightarrow \quad y - a_2 x^2 - b_2 x - c_2 = 0$$

$$\mathcal{F}_p \quad \lambda (y - a_1 x^2 - b_1 x - c_1) + \mu (y - a_2 x^2 - b_2 x - c_2) = 0$$

se  $\mu \neq 0$  divido  $\mathcal{F}_p$  per  $\mu$  e pongo  $\frac{\lambda}{\mu} = k$   
ottengo

$$\mathcal{F}_p : \left[ \begin{array}{l} k(y - a_1 x^2 - b_1 x - c_1) + y - a_2 x^2 - b_2 x - c_2 = 0 \\ \quad \quad \quad \cup \\ \quad \quad \quad y = a_1 x^2 + b_1 x + c_1 \end{array} \right.$$

$$\left[ \begin{array}{l} (k+1)y + (-a_1 k - a_2)x^2 + (-b_1 k - b_2)x + (-c_1 k - c_2) = 0 \\ \quad \quad \quad \cup \\ \quad \quad \quad y = a_1 x^2 + b_1 x + c_1 \end{array} \right.$$

pongo  $k \neq -1$

$$\left[ \begin{array}{l} y = \frac{a_1 k + a_2}{k+1} x^2 + \frac{b_1 k + b_2}{k+1} x + \frac{c_1 k + c_2}{k+1} \\ \quad \quad \quad \cup \\ \quad \quad \quad y = a_1 x^2 + b_1 x + c_1 \end{array} \right.$$

A                      B                      C