

12)

$(2, 3, 3) \quad (1, -2, 3)$

$(0, -1, 0)$

$x + 5y + z = 0$

$\left(\frac{15}{13}, -\frac{16}{13}, 3\right)$

$m: (-2, -5, 0)$

$\delta: -x - 5y + d = 0 \quad P \in \delta \Rightarrow 3 + d = 0 \quad d = -3 \quad x + 5y + z = 0$

$P' \in \delta \cap \delta: (2 - \delta, 3 - 5\delta, 3) \in \delta \quad 2 - \delta + 15 - 25\delta + 5 = 0 \quad -26\delta = -22 \quad \delta = \frac{11}{13}$

$\Rightarrow P' = \left(\frac{15}{13}, -\frac{16}{13}, 3\right)$