(1)
$$\{x + 2y - 2 = 3 \quad (\pi_1) \\ \{2x - y + 2\} = -1 \quad (\pi_2)$$

$$\bar{n}_1 = (1, 2, -1) \perp \pi_1$$
 $\bar{n}_2 = (2, -1, 2) \perp \pi_2$

Sea il vector direction de r

$$\Gamma \subseteq T_{X} \rightarrow \overline{\Gamma}_{1} \perp \Gamma.$$

$$\Gamma \subseteq T_{2} \rightarrow \overline{\Gamma}_{2} \perp \Gamma$$

$$\Gamma \subseteq T_{3} \rightarrow \overline{\Gamma}_{2} \perp \Gamma$$

$$\overline{u} := \overline{n_{1}} \overline{n_{2}}$$

$$\overline{\mu}:=\overline{\eta_1} \wedge \overline{\eta_2} = \begin{vmatrix} 1 & 2 & -1 \\ 2 & -1 & 2 \end{vmatrix} = \begin{pmatrix} 1 & -4 & -5 \\ 2 & -1 & 2 \end{vmatrix}$$

Busco punto de paso Po (xo, do, 20) ET

Sea
$$x_0 = 0$$

$$\begin{cases} x_0 + 2y_0 = 3 \implies x_0 = 3 - 2y_0 \\ 2x_0 - y_0 = -1 \implies 2(3 - 2y_0) - y_0 = -1 \\ 6 - 4y_0 - y_0 = -1 \end{cases}$$

$$x_0 = 3 - 2 \cdot \frac{4}{5} = \frac{15 - 14}{5} = \frac{1}{5}$$

$$Y = \frac{1}{5} + t$$

$$Y = \frac{1}{5} - 4t + ER$$

$$2 = 0 - 5t \quad \text{rectal}$$

b)
$$\begin{cases} x^2 + y^2 + z^2 = 3^2 \\ z = 2 \end{cases}$$
 $\begin{cases} x^2 + y^2 = 3^2 - 2^2 \\ z = 2 \end{cases}$ $\begin{cases} x^2 + y^2 = 3^2 - 2^2 \\ z = 2 \end{cases}$ $\begin{cases} x^2 + y^2 = 3^2 - 2^2 \\ z = 2 \end{cases}$