$$\vec{n} = \vec{y}_{1} \times \vec{y}_{2} = | \vec{1} \cdot \vec{5} \cdot \vec{k} |$$

$$| 0 \cdot 1 \cdot 2 \cdot \vec{2} \cdot \vec{0} \cdot \vec{1} \cdot \vec{2} \cdot \vec{0} \cdot \vec{1} \cdot \vec{$$

$$= ((1)(-1) - (7)(0))\hat{L} - ((0)(-1) - (2)(2))\hat{J} + ((0)(0) - (1)(2))\hat{R}$$

$$= (-1 - 0)\hat{Z} - (0 - 4)\hat{J} + (0 - 2)\hat{R}$$

$$= -1\hat{L} + 4\hat{J} - 2\hat{R} \quad \vec{R} = \begin{bmatrix} -1 \\ -2 \end{bmatrix}$$

Point In P: (5, 2, 0)

$$P => -1(x-5) + 4(y-2) - 2(z-0) = 0$$

$$-x+5 + 4y-3-2z=0$$

$$-x+4y-2z-3=0$$

b.
$$P_{p} = (5, 2, 0)$$
 $P_{Q} = (3, 0, 1)$

$$\frac{\rho roj_{P22}}{\rho roj_{V}, V_{p}} = \frac{V_{p} - V_{p}}{|V_{p}|^{2}} = \frac{5}{3}$$

$$\frac{V_{p} = 5}{2} = \frac{3}{2}$$

$$\frac{V_{p} - V_{p}}{|V_{p}|^{2}} = \frac{3}{2}$$

$$V_{\text{inp}} = \sqrt{5^2 + z^2} = \sqrt{200}$$
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 $V_{\text{inp}} = \sqrt{5^2 + z^2}}$
 V_{inp}

$$D = \sqrt{30/29} = \sqrt{7.5 - 3)^2 + (3 - 2)^2 + (0 - 0)^2} = \sqrt{4.5^2 + 1^2}$$