

$$P = (1, 4, 2)$$

$$\pi: 2x - y + z - 2 = 0$$

$$A = 2 \quad \leftarrow$$

$$B = -1 \quad \leftarrow$$

$$C = 1 \quad \leftarrow$$

$$D = -2$$

$$d = \frac{|A \cdot x_0 + B \cdot y_0 + C \cdot z_0 + D|}{\sqrt{A^2 + B^2 + C^2}}$$

$$d = \frac{|2 + (-4) + 2 - 2|}{\sqrt{4 + 1 + 1}}$$

$$= \frac{2}{\sqrt{6}}$$

