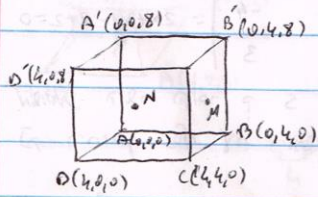


4.22
5



$$M = (2, 4, 4) \quad N = (4, 2, 2) \quad (2)$$

$$B' = (0, 4, 8)$$

$$\begin{array}{l} \vec{B'M} \\ \vec{B'N} \end{array} \left| \begin{array}{ccc} x & y-4 & z-8 \\ 2 & 0 & -4 \\ 4 & -2 & -4 \end{array} \right| = 0$$

$$0 = -8x - 8(y-4) - 4(z-8) \rightarrow 2x + 2y + z = 16$$

$$\frac{x}{2} = \frac{y}{2} = \frac{z}{1} \leftarrow \ell: x = (2, 2, 1) \quad (3)$$

$$\cos \alpha = \frac{(2, 0, -4) \cdot (4, -2, -2)}{\sqrt{20} \sqrt{36}} = \frac{24}{\sqrt{20} \sqrt{36}} = \frac{4}{\sqrt{20}} = \frac{2}{\sqrt{5}} \quad (4)$$

$$S_{B'MN} = \frac{1}{2} |\vec{B'M} \times \vec{B'N}| = \frac{1}{2} \sqrt{8^2 + 8^2 + 4^2} = 6 \quad (5)$$

$$V = \frac{1}{3} \cdot 6 \cdot \frac{16}{3} = \frac{32}{3} \quad d = \frac{16}{3} \quad B'MN \text{ dan } A \text{ p-n}$$