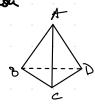
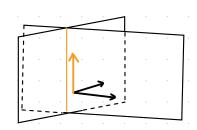
4.18. ADCD totra hedron





Detourine the common popendicular on 410 and cd do x d, = 70 no 90 71 n, 21

$$\vec{Ab} (3_16_13) \Rightarrow \vec{Ab} \times \vec{CB} = \begin{vmatrix} i & j & k \\ 3 & 6 & 3 \\ 3 & -1 & 4 \end{vmatrix} = 24i - 3k + 3j - 6k + 3i - 12j = 24i - 9j - 9k$$

$$\begin{vmatrix} x^{-2} & y+1 & z-1 \\ 3 & 6 & 3 \\ 24 & -9 & -9 \end{vmatrix} = 0 \Leftrightarrow \begin{vmatrix} x-2 & y+1 & z-1 \\ 1 & 2 & 1 \\ 3 & -1 & -1 \end{vmatrix} = 0$$

$$\begin{vmatrix}
x-3 & y-2 & 2-1 \\
3 & -1 & -1 \\
1 & -1 & 4
\end{vmatrix} = 0 = -hx + 12 - 32 - 32 - y + 24 = 41 - x + 3 - 12y + 3 - 24 = 41 - x + 3 + 24 = 41 - x + 3 + 24 =$$

₩ 2.1, 2.5, 2.10, 2.11, 2.14, 2.18, 2.19, 2.26, 2.27, 2.30

$$3 \times 4 + 4y + 2 = 9 \cdot \sqrt{x^{2} + 4^{2} + 2^{2}} \cdot \cos(d_{1}a)$$

$$2x + 2y + 2 = 3 \cdot \sqrt{x^{2} + 4^{2} + 2^{2}} \cdot \cos(d_{1}b)$$

$$3 \times 4 + 4y + 2 = 3 \cdot 2x + 2y + 2$$

$$3 = 3 \cdot 2x + 2y + 2$$

$$3 \times 4 + 4y + 2 = 6 \times 4 \cdot 6y + 3 = 2x - 2y - 2z = 0$$

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

$$x - y - z = 0$$

$$x - y - z = 0$$

(a,b,c) and (a,b,d) have the same orientation

2>0=) y <0 => one vector is
$$\vec{d}(0,-1,1)$$



$$AB = (2,-4)$$

extrocurses

 $C : y = 3+2$ |(4)

 $C : y = -2+8$

$$N_{BC} = c(h_1 - 1) > AA^{1} = \frac{1}{1} \frac{y - 2 - x}{y - 2 - x} \cdot \frac{1 \cdot (h)}{h}$$

$$AA^{1} \perp BC = AA^{1} = x + 4y = 9$$

$$M_{AC} = ((1, -1))$$
 $BB' = (1, -1)$
 $BB' = (1, -1)$
 $BB' = (1, -1)$
 $BB' = (1, -1)$

$$AA^{1}: X+hy=9$$

$$BB^{1}: X-hy=1$$

$$Y=\frac{8}{3}: X=\frac{-5}{3} \Rightarrow H(\frac{-5}{3},\frac{8}{3}) \text{ orthocuttr.}$$

circumcenter - mediatoare!

$$\frac{1}{3c} = (\frac{1}{1}) = \frac{1}{3} \times \frac{1}{3} \times$$