

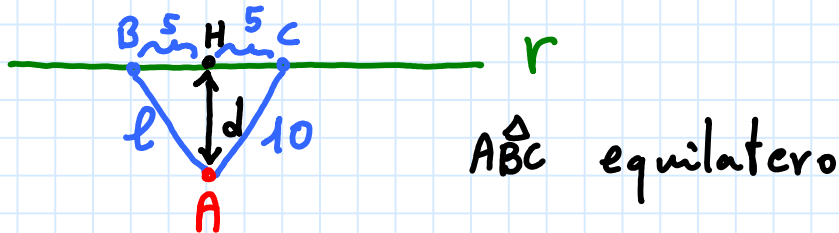
Ricevimento studenti - lunedì 13 febbraio 2003

Titolo nota

13/02/2023

$$A(\sqrt{26}, 2, 3) \quad r: x = z + 4 = 0$$

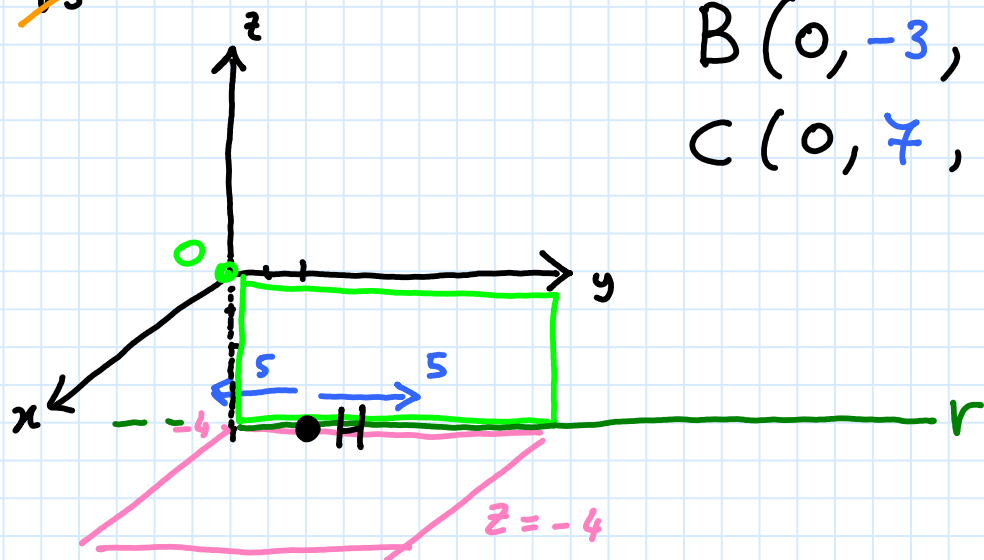
$$d = d(A, r) \quad A \notin r \quad \pi: y - z = 0$$



$$d = \frac{\sqrt{3}}{2} \cdot l \Rightarrow l = \frac{2}{\sqrt{3}} \cdot d$$

Lei ha trovato che $H(0, 2, -4)$ & $d = 5\sqrt{3}$

$$l = \frac{2}{\sqrt{3}} \cdot 5 \cdot \sqrt{3} = 10$$



$$r: \begin{cases} x = 0 \\ y \text{ libera} \\ z = -4 \end{cases} \quad \begin{aligned} B(0, y, -4) \in r: x = z + 4 = 0 \\ H(0, 2, -4) \\ d(B, H) = 5; \end{aligned}$$

$$\sqrt{(0-0)^2 + (y-2)^2 + (-4-(-4))^2} = 5$$

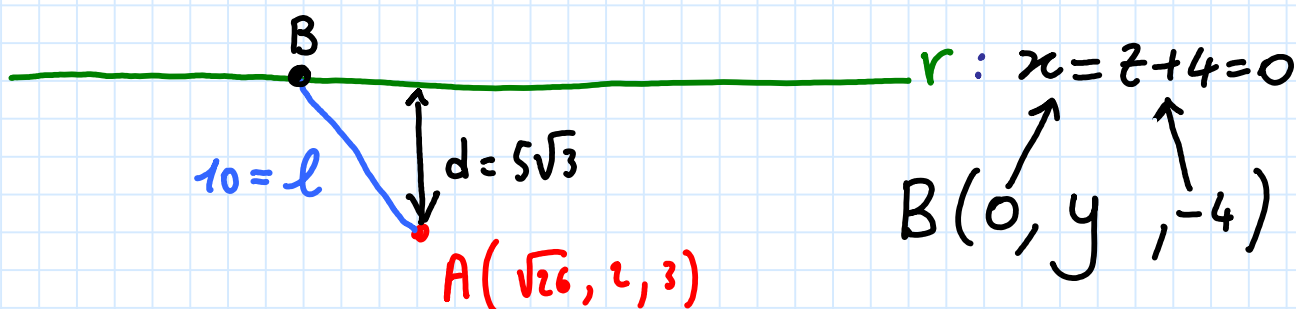
$$\sqrt{(y-2)^2} = 5$$

$$|y-2| = 5$$

$$y-2 = \pm 5$$

$$y = 2 \pm 5$$

$$\begin{array}{l} \nearrow y_1 = 7 \\ \searrow y_2 = -3 \end{array}$$



$$d(A, B) = 10$$

$$\sqrt{(\sqrt{26}-0)^2 + (2-y)^2 + (3-(-4))^2} = 10$$

$$26 + (2-y)^2 + 7^2 = 10^2$$

$$26 + 4 - 4y + y^2 + 49 - 100 = 0$$

$$y^2 - 4y - 21 = 0$$

$$(y-7) \cdot (y+3) = 0 \rightarrow y_1 = 7 \text{ \& } y_2 = -3$$
