



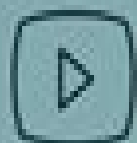
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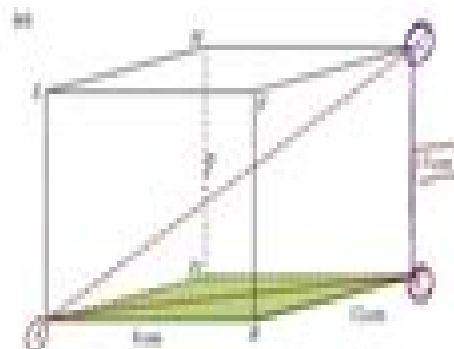
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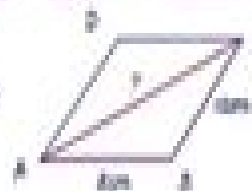
$$\begin{aligned}\text{pt. of plate} &= 12 \times 22 \times 4.2 \\ &= 10584 \text{ cm}^3\end{aligned}$$

440-8 (15)



The diagram shows a cuboid, ABCDEFGH.

Calculate the angle that AC makes with the base of the cuboid.



$$\begin{aligned}AC^2 &= AB^2 + BC^2 \\ AC &= \sqrt{8^2 + 6^2} \\ &= 10\sqrt{10}\end{aligned}$$



$$\tan \theta = \frac{6}{8}$$

$$\theta = \tan^{-1} \left(\frac{6}{8} \right)$$

$$\tan \theta = \frac{6}{8}$$

44-15° (16)

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