

$$\Rightarrow R < r \left(\operatorname{cosec} \frac{\pi}{6} - 1 \right) \Rightarrow R < r$$

$$(C) \quad n = 8, R = r \left[\operatorname{cosec} \left(\frac{\pi}{8} \right) - 1 \right]$$

$$\Rightarrow R > r \left(\operatorname{cosec} \left(\frac{\pi}{4} \right) - 1 \right)$$

$$\Rightarrow R > r(\sqrt{2} - 1)$$

$$(D) \quad n = 12, R = r \left[\operatorname{cosec} \left(\frac{\pi}{12} \right) - 1 \right]$$

$$\Rightarrow R = \left[\sqrt{2}(\sqrt{3} + 1) - 1 \right] r$$

$$\Rightarrow R < \sqrt{2}(\sqrt{3} + 1)r$$

13. Let \hat{i}, \hat{j} and \hat{k} be the unit vectors along the three positive coordinate axes. Let

$$\vec{a} = 3\hat{i} + \hat{j} - \hat{k},$$

$$\vec{b} = \hat{i} + b_2\hat{j} + b_3\hat{k}, \quad b_2, b_3 \in \mathbb{R},$$

$$\vec{c} = c_1\hat{i} + c_2\hat{j} + c_3\hat{k}, \quad c_1, c_2, c_3 \in \mathbb{R}$$

be three vectors such that $b_2, b_3 > 0$, $\vec{a} \cdot \vec{b} = 0$ and

$$\begin{pmatrix} 0 & -c_3 & c_2 \\ c_3 & 0 & -c_1 \\ -c_2 & c_1 & 0 \end{pmatrix} \begin{pmatrix} 1 \\ b_2 \\ b_3 \end{pmatrix} = \begin{pmatrix} 3 - c_1 \\ 1 - c_2 \\ -1 - c_3 \end{pmatrix}.$$

Then, which of the following is/are TRUE?

$$(A) \quad \vec{a} \cdot \vec{c} = 0$$

$$(B) \quad \vec{b} \cdot \vec{c} = 0$$

$$(C) \quad |\vec{b}| > \sqrt{10}$$

$$(D) \quad |\vec{c}| \leq \sqrt{11}$$

Answer (B, C, D)

$$\text{Sol. } [\hat{i} \hat{j} \hat{k}] \begin{bmatrix} 0 & -c_3 & c_2 \\ c_3 & 0 & -c_1 \\ -c_2 & c_1 & 0 \end{bmatrix} \begin{bmatrix} 1 \\ b_2 \\ b_3 \end{bmatrix} = [\hat{i} \hat{j} \hat{k}] \begin{bmatrix} 3 - c_1 \\ 1 - c_2 \\ -1 - c_3 \end{bmatrix}$$

$$\Rightarrow \vec{c} \times \vec{b} = \vec{a} - \vec{c} \quad \dots (i)$$

$$\Rightarrow (\vec{c} \times \vec{b}) \cdot \vec{b} = \vec{a} \cdot \vec{b} - \vec{c} \cdot \vec{b} = 0$$

$$\Rightarrow \vec{b} \cdot \vec{c} = 0$$

Maths Paper For 2exampler

Yijin Wang

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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