

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

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

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

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

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

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

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

Let \(\tilde{l}, \tilde{j}\) and \(\tilde{k}\) be the unit vectors along the three positive coordinate axes. Let

$$\ddot{a} = 3\ddot{i} + \ddot{j} - \ddot{k},$$
  
 $\dot{b} = \ddot{i} + b_2\ddot{j} + b_3\dot{k}, \quad b_2, b_3 \in \mathbb{R},$   
 $\dot{c} = c_1\ddot{i} + c_2\dot{j} + c_3\dot{k}, \quad c_1, c_2, c_3 \in \mathbb{R}$ 

be three vectors such that  $b_0b_0 > 0$ ,  $\bar{a} \cdot \bar{b} = 0$  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) 
$$\vec{a} \cdot \vec{c} = 0$$

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

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

Answer (B, C, D)

**Sol.** 
$$\begin{bmatrix} \hat{I} \hat{j} \hat{k} \end{bmatrix} \begin{bmatrix} 0 & -c_3 & c_2 \\ c_3 & 0 & -c_1 \\ -c_2 & c_1 & 0 \end{bmatrix} \begin{bmatrix} 1 \\ b_2 \\ b_3 \end{bmatrix} = \begin{bmatrix} \hat{I} \hat{j} \hat{k} \end{bmatrix} \begin{bmatrix} 3 - c_1 \\ 1 - c_2 \\ -1 - c_3 \end{bmatrix}$$

$$\Rightarrow$$
  $\vec{c} \times \vec{b} = \vec{a} - \vec{c}$  ...(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**

Glenn Moody Hobbs, Edward
Broughton Waite, John Paul Schroeter

**Maths Paper For 2exampler:** 

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