Revision

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$$\overline{u} = u_x \hat{t} + u_y \hat{j} + u_z \hat{k}$$
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び2く1,2,2>

[3] 1/k. 72 | = 1/k11. 11711

$$||\vec{u}|| = \sqrt{1 + 2^2 + 2^2}$$

$$= \sqrt{9} = |\vec{3}|$$

$$= \sqrt{4 + 32}$$

$$=\sqrt{36}=6$$

$$6 = 6$$
 $2 \cdot |\vec{u}| = ||2 \cdot \vec{n}||$

 $\overline{U} = \langle \overline{U}_{2} \rangle \langle \overline{U}_{2$ [4] dot Product 11 × V x + ly · Vy + 1/2· Vz = Scalor (F) > || UII- || V | 1 cos 0 = scalar (12,) > u.v = v. u $\Rightarrow \overrightarrow{u} \cdot \overrightarrow{V} = |\overrightarrow{u}| |\overrightarrow{V}| |\cos \theta \Rightarrow \cos \theta = \frac{\overrightarrow{u} \cdot \overrightarrow{V}}{||\overrightarrow{u}|| ||\overrightarrow{V}||} \Rightarrow \theta = \cos \left(\frac{\overrightarrow{u} \cdot \overrightarrow{V}}{||\overrightarrow{u}|| ||\overrightarrow{V}||}\right)$ >12/11/11 Sina

Projection (
$$||v|| = ||v|| =$$

$$\vec{V} = \langle 1, -2, 4 \rangle$$

$$\vec{V} = \langle 1, -2, 4 \rangle$$

$$\vec{U} = \langle 1, -2, 4 \rangle$$

$$\vec{U} = \langle 1, -2, 4 \rangle$$

$$\vec{U} = \langle 1, -1, 7 \rangle \Rightarrow ||\vec{u} + \vec{v}|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 1 + 4q} = ||\vec{V} = 1|| = \sqrt{1 + 4q} = |$$

$$\vec{v} = \langle -2, 1, 3 \rangle$$

$$\vec{v} = \langle 1, -2, 4 \rangle$$

$$\vec{b} = \langle 1, 1, -2 \rangle$$

$$\vec{b} = \langle 2, 2, -4 \rangle$$
A) check if \vec{a} and \vec{b} ore \vec{l} or \vec{l}

$$\vec{l} = \langle 1, 1, -2 \rangle$$

$$\vec{b} = \langle 2, 2, -4 \rangle$$

$$\vec{b} = \langle 1, 1, -2 \rangle$$

$$\vec{b} = \langle 2, 2, -4 \rangle$$

$$\vec{b} = \langle 1, 1, -2 \rangle$$

$$\vec{b} = \langle 2, 2, -4 \rangle$$

$$\vec{b} = \langle 1, 1, -2 \rangle$$

$$\vec{c} = \langle 1, 1$$