

e-01-05-012.5

$$\vec{v}_2 = 7\hat{i} + 4\hat{j} + 3\hat{k}$$

$$\vec{v}_1 = 6\hat{i} + 2\hat{k}$$

-1111

$$\vec{v}_1 + \vec{v}_2 + \vec{v}_3 = 0$$

-e 77

$$\vec{v}_3 = ? (10)$$

$$\vec{v}_1 + \vec{v}_2 = -\vec{v}_3$$

$$7\hat{i} + 4\hat{j} + 3\hat{k} + 6\hat{i} + 2\hat{k} = -\vec{v}_3$$

$$-7\hat{i} - 4\hat{j} - 5\hat{k} = \vec{v}_3$$

$$\vec{v}_3 = (-7, -4, -5)$$

> 1101 or 11010

$$\vec{v}_1 - \vec{v}_2 + \vec{v}_4 = 0$$

-e 77

$$\vec{v}_4 = ? (12)$$

$$\vec{v}_2 - \vec{v}_1 = \vec{v}_4$$

$$7\hat{i} + 4\hat{j} + 3\hat{k} - 6\hat{i} - 2\hat{k} = \vec{v}_4$$

$$-5\hat{i} + 4\hat{j} + \hat{k} = \vec{v}_4$$

$$\vec{v}_4 = (-5, 4, 1)$$

-11110 11111 11111