
Solucionario De La Fisica Vectorial 2 De Zambrano Orejuela.zip 1

a) La componente del vector en el eje X.

$$\text{Tang } 27^\circ = \frac{-45}{x}$$
$$x = -22.92 \text{ km}$$

b) Los ángulos directores.

$$\alpha = 360^\circ - 207^\circ$$
$$\alpha = 153^\circ$$
$$\beta = 207^\circ - 90^\circ$$
$$\beta = 117^\circ$$

c) El vector en función de los vectores base.

$$J = \sqrt{(8x)^2 + (8y)^2}$$
$$J = \sqrt{(-22.92)^2 + (-45)^2}$$
$$J = \sqrt{2550.3264}$$
$$J = 50.50 \text{ km}$$

d) Las coordenadas del extremo del vector.

$$\vec{J} = (x; y)$$
$$\vec{J} = (-22.92; -45) \text{ km}$$

e) El vector en función de sus componentes rectangulares.

$$\vec{J} = (x + jy)$$
$$\vec{J} = (-22.92 - 45j) \text{ km}$$

f) El vector unitario.

$$\mu_J = \frac{\vec{J}}{|\vec{J}|}$$

$$\mu_J = \frac{(-22.92\hat{i} - 45\hat{j}) \text{ km}}{50.50 \text{ km}}$$

$$\mu_J = (-0.453\hat{i} - 0.89\hat{j})$$

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