

$$\vec{d} = (s,7) = 5\hat{i} + 7\hat{j}$$

$$\vec{A} = a\hat{i} + b\hat{i}$$

$$|A| = \sqrt{a^2 + b^2} \qquad |A| = A \cos \theta$$

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## tráctica:

Calcule las componentes x y y de los siguientes vectores:

i) 
$$\vec{A} = 42m$$
  $31^{\circ}$   
 $\vec{A}_{x} = 42\cos(37) = 33.59m$   
 $\vec{A}_{y} = 42\sin(37) = 25.28m$ 

$$C_{x} = -30 \sin(30) = -15N$$

$$H_{y} = 4d \sin(37) = 25,28 \text{ m}$$

$$II) \vec{B} = 25 \text{ m/s} = 22^{2}$$

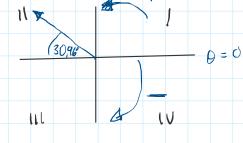
$$B_{x} = 25 \cos(22) = 23,18 \text{ m/s}$$

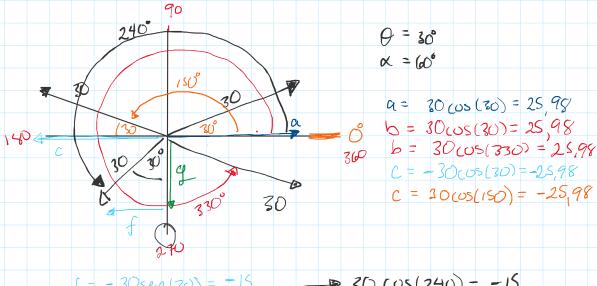
$$B_{y} = -25 \sin(22) = -9,36 \text{ m/s}$$

$$C_{x} = -30 \sin(30) = -15N$$
  
 $C_{y} = -30 \cos(30) = -25,98N$ 

2 Encuentre la magnitud y dirección se los vectores suministrados

i) 
$$\vec{D} = 4\vec{1} + 8\vec{5}$$
 $|\vec{D}| = \sqrt{4^2 + 8^2} = 8.94$ 
 $|\vec{E}| = \sqrt{5^2 + 3^2} = 5.83$ 
 $|\vec{D}| = \tan^4 (8) = 63.43^\circ$ 
 $|\vec{D}| = \tan^4 (3) = 430.96^\circ$ 





$$\int = -30 \sin(30) = -15$$

$$Q = -30 \cos(30) = -25,98 \implies 30 \sin(240) = -25,98$$