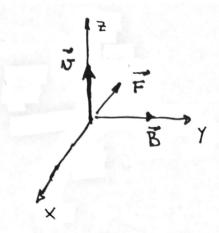
$$\vec{B} = 0.2T$$

$$Q = 3.2 \times 10^{-19} C$$

$$\vec{\nabla} = 2 \text{ m/s} \hat{k}$$

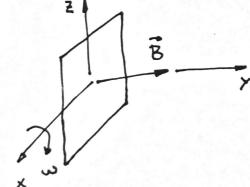


Per la regla de la mà dreta 
$$\vec{F} = Q \vec{n} \times \vec{B} = -Q \vec{n} \vec{B} \hat{i}$$
  
 $\vec{F} = -3.2 \times 10^{-19} \cdot 2.0.2 \hat{i} = -1.28 \times 10^{-19} \vec{N} \hat{i}$ 

També el podem resoldre fent servir el determinant per calcular el producte vectorial:

$$\begin{aligned}
\vec{F} &= Q \vec{N} \times \vec{B} = 3,2 \times 10^{19}. & | \hat{i} & \hat{j} & \hat{k} \\
&= 0.0 \times \vec{B} = 3,2 \times 10^{19}. & | 0.0 \times 2 &$$





$$5 = 0.01 \, \text{m}^2$$
  
 $W = 30 \, \text{rad/s}$ 

$$\phi = B.S.\cos d = 0.2.0.01.\cos(30t)$$
  
 $\phi = 0.002\cos(30t)$ 

La fem: 
$$E = -\frac{d\phi}{dt} = -0,002.(-\sin(30t)).30$$