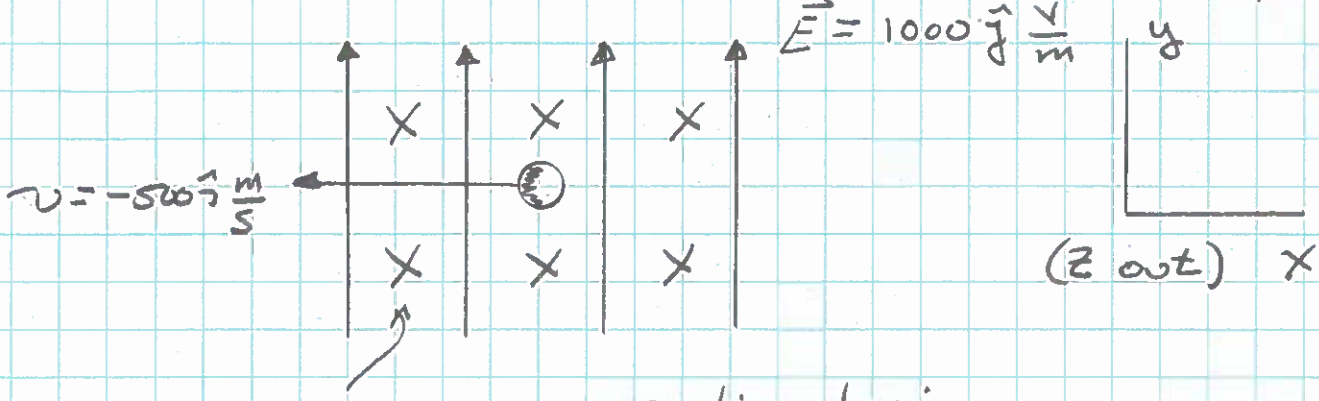

antiproton:

$m = m_p = 1.67 \times 10^{-27}\ kg$

$q = -e$

Electric force: $\vec{F}_e = q\vec{E} = -e\vec{E} = -1.6 \times 10^{-16}\,\hat{j}\ N$

magnetic force: $\vec{F}_m = q\vec{v} \times \vec{B} = -e\vec{v} \times \vec{B}$

$= (evB)\,\hat{j}$ by RHR

$= 2 \times 10^{-16}\,\hat{j}\ N$

So, $\vec{F} = \vec{F}_e + \vec{F}_m = 4 \times 10^{-17}\,\hat{j}\ N$

Now: $\vec{F} = m\vec{a}$

$\vec{a} = \frac{\vec{F}}{m} = 2.395 \times 10^{10}\,\hat{j}\ \frac{m}{s}$