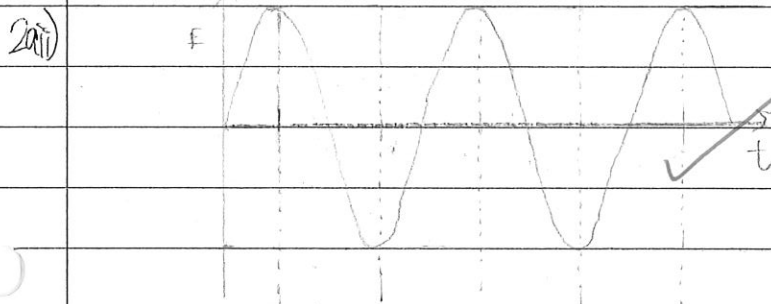
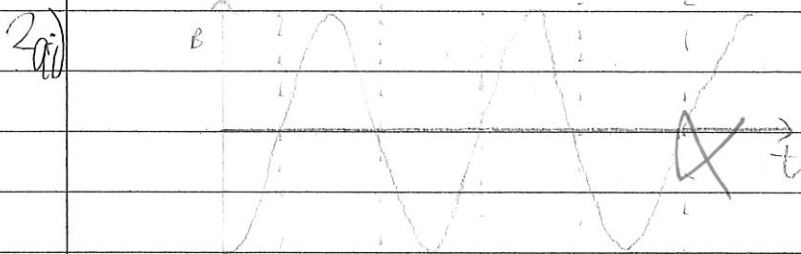
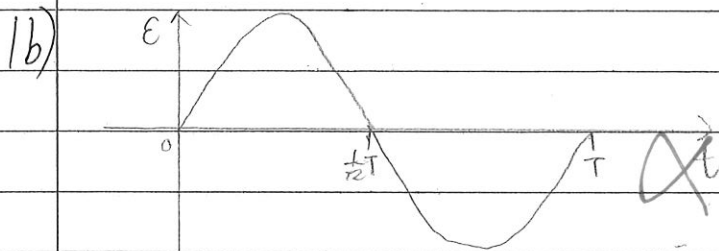


1a)  $\mathcal{E} = Blv$

Three factors are the flux density of the magnetic field, the length of AB and the rate of cutting of magnetic flux, or the velocity of the wire  $v$ .



2bi)  $|B|$  will increase by many times and hence  $|E|$  will also increase since  $\mathcal{E} \propto -\frac{d\Phi}{dt}(B)$ . Frequency of  $\mathcal{E}$  does not change.

2bii)  $|E|$  does not change but frequency of  $E$  <sup>increases</sup> as rate of change of flux-linkage changes when frequency of current of solenoid is increased.

Subject:

Date:

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