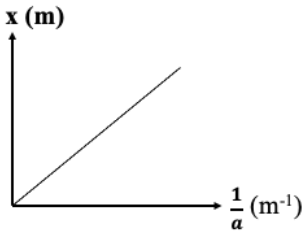
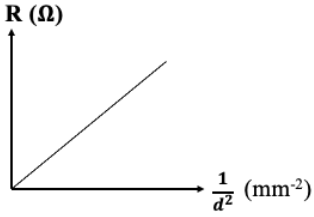
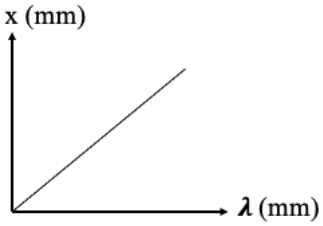
ANALISIS TRIAL NEGERI 2020 PHYSICS 2020 P3

NO	MELAKA	KELANTAN	TERENGGANU
1	**HEAT** **AIM:** to investigate how the temperature of water increases with the time of heating.	**CHARLES' LAW** **AIM:** to investigate the relationship between temperature, θ, and the volume, V, of trapped air.	**SNELL'S LAW** **AIM:** to investigate the relationship between the refractive index , *n* and the refracted angle, *r.*
2	**INTERFERENCE OF SOUND WAVE**  $\lambda = \frac{ax}{D}$	**FACTOR AFFECT RESISTANCE**  $\rho = \frac{km}{l}$ **m = gradient** **k = 0.786**	**INTERFERENCE OF LIGHT WAVE**  **ka = D** **k = gradient**
3	**LENS** - object distance - image distance - magnification $\frac{1}{f} = \frac{1}{u} + \frac{1}{v}$	**PRESSURE IN LIQUID** **SITUATION**: air bubbles produced by an air pump in an aquarium filled with fresh water **CLUE**: thistle funnel, manometer MV : depth RV : difference height in manometer FV : density of liquid	**CHARLES' LAW** **CLUE**: capillary tube, meter rule, thermometer MV : temperature RV : length of trapped air FV : pressure of air // mass of air
4	**TRANSFORMER** - step down MV : N_S RV : V_S FV : Vp // Np	**INTERFERENCE OF LIGHT WAVE** MV : a RV : x FV : D, λ	**MAGNETIC FORCE** **SITUATION**: the fan blade rotate faster with different number of speed control **CLUE**: d.c power supply, ammeter, C-shaped steel yoke, bare copper rod MV : current RV : distance of copper rod moves FV : no. of bar magnet // distance between 2 bar magnet

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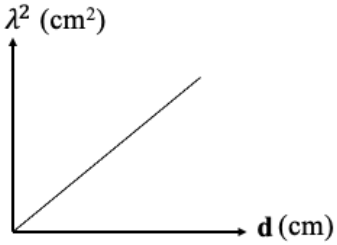
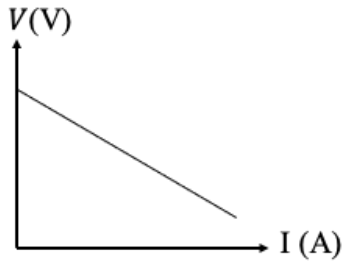
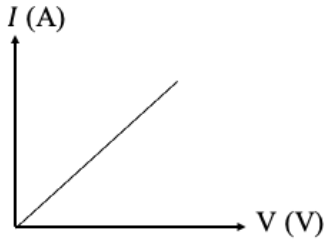
NO	PAHANG	PERLIS	DAERAH BATU PAHAT
1	**SNELL'S LAW** **AIM:** to investigate the relationship between the angle of incidence, *i* and the refracted angle, *r.*	**REFRACTION OF LIGHT** **AIM:** to investigate the relationship between the real depth, *H*, and the apparent depth, *h*, of an object in a liquid.	**SNELL'S LAW** **AIM:** to investigate the relationship between the angle of incidence, *i* and the refracted angle, *r.*
2	**REFRACTION OF WATER WAVE**  $f = \sqrt{\frac{g}{k}}$ **k = gradient**	**EMF**  **r = - m** **m = gradient**	**OHM'S LAW**  $R = \rho \frac{l}{A}$
3	**PRESSURE IN LIQUID** **SITUATION**: dives at the same depth, but he feels his ear sick when he is diving in the sea water. **CLUE**: thistle funnel, manometer MV : density of liquid RV : difference height in manometer FV : depth	**F = ma** **SITUATION**: a boy throwing ball of different masses, using the same amount of force. **CLUE**: trolley, slotted weights, ticker-timer MV : mass RV : acceleration FV : force	**PRESSURE LAW** **CLUE**: Bourdon gauge, round base flask MV : temperature RV : pressure of air FV : volume of air// mass of air
4	**REFRACTION OF WATER WAVE** - depth and wavelength MV : depth RV : λ FV : frequency	**REFRACTION OF WATER WAVE** - depth and wavelength MV : depth RV : λ FV : frequency	**INTERFERENCE OF SOUND WAVE** **SITUATION**: a Zumba class being conducted in a closed hall. When a coherent sound source is played through the speakers, loud and slow sounds are heard alternately. **CLUE**: audio signal generator, speaker MV : a RV : x FV : D, λ

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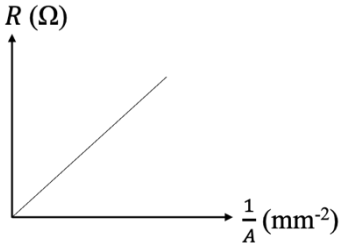
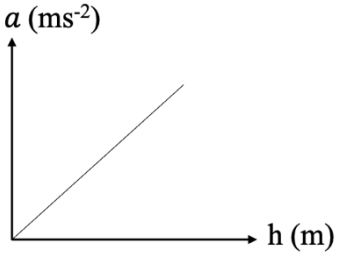
NO	PULAU PINANG	WILAYAH PUTRAJAYA
1	**F = ma** **AIM:** to study the relationship between the speed of trolley, v, and the height of trolley on an inclined plane from the floor, h.	**SNELL'S LAW** **AIM:** to investigate the relationship between the angle of incidence, *i* and the refracted angle, *r*.
2	**FACTOR AFFECT RESISTANCE**  $R = \rho \frac{l}{A}$	**F = ma**  $m = \frac{g}{l}$ **m = gradient** $a = \frac{g}{l} x\ h$
3	**LENS** - object distance - image distance - magnification $\frac{1}{f} = \frac{1}{u} + \frac{1}{v}$	**REFRACTION OF LIGHT WAVE** **(SNELL'S LAW)** MV : incidence angle RV : refracted angle FV : density of glass block
4	**REFRACTION OF WATER WAVE** - depth and wavelength MV : depth RV : λ FV : frequency	**TRANSFORMER** MV : Ns RV : Vs FV : Np