15 FORMULA PENTING FIZIK

Formula Asas yang Wajib Anda Ketahui

1. Laju (Speed)

$$v = \frac{d}{t}$$

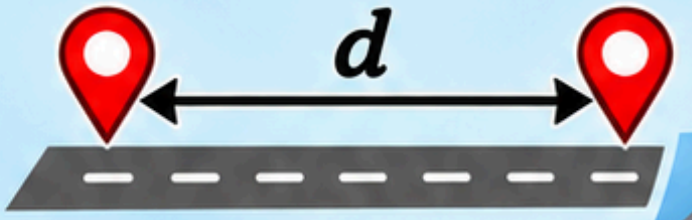
Laju = Jarak ÷ Masa



2. Jarak (Distance)

$$d = v \times t$$

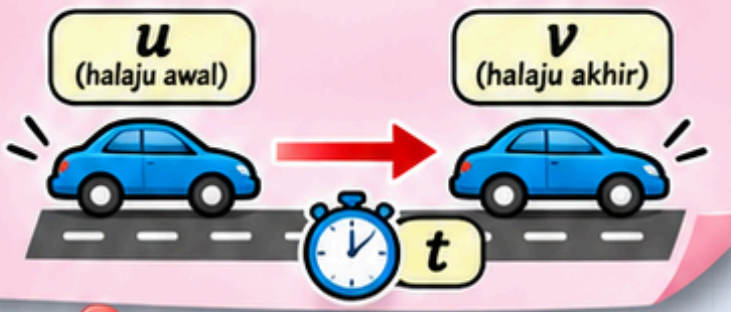
Jarak = Laju × Masa



3. Pecutan (Acceleration)

$$a = \frac{v - u}{t}$$

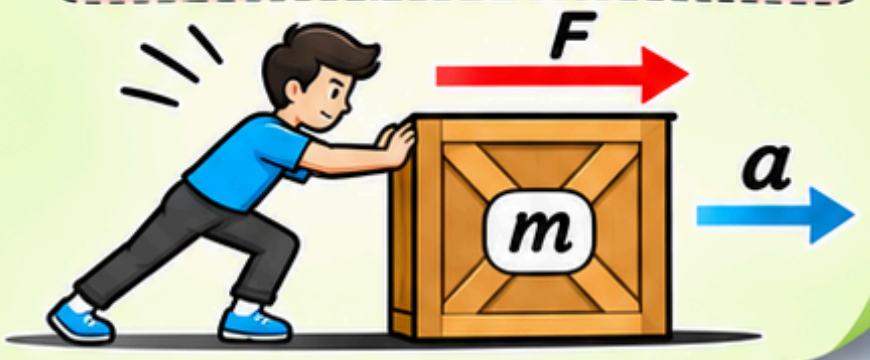
Pecutan = Perubahan Halaju ÷ Masa



4. Daya (Force)

$$F = ma$$

Daya = Jisim × Pecutan



5. Kerja (Work)

$$W = Fd$$

Kerja = Daya × Sesaran



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15 FORMULA PENTING FIZIK

Formula Asas yang Wajib Anda Ketahui

6. Kuasa (Power)

$$P = \frac{W}{t}$$

Kuasa = Kerja ÷ Masa



7. Ketumpatan (Density)

$$\rho = \frac{m}{V}$$

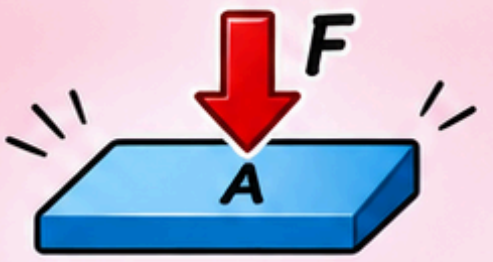
Ketumpatan = Jisim ÷ Isi Padu



8. Tekanan (Pressure)

$$P = \frac{F}{A}$$

Tekanan = Daya ÷ Luas Permukaan



9. Tenaga Kinetik (Kinetic Energy)

$$E_K = \frac{1}{2}mv^2$$

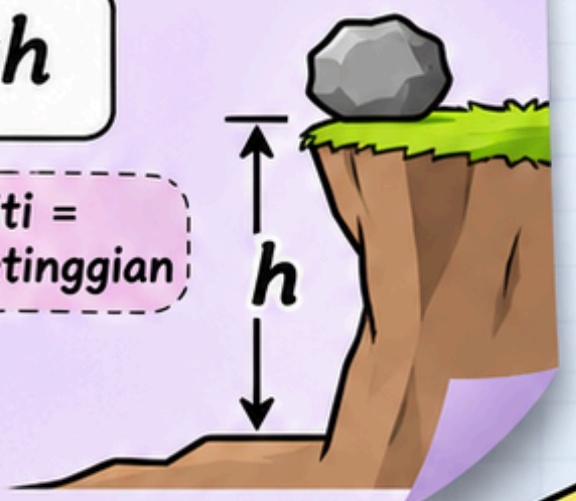
Tenaga Kinetik = ½ × Jisim × Halaju²



10. Tenaga Keupayaan Graviti (Gravitational Potential Energy)

$$E_P = mgh$$

Tenaga Keupayaan Graviti = Jisim × Pecutan Graviti × Ketinggian



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15 FORMULA PENTING FIZIK

Formula Asas yang Wajib Anda Ketahui

11. Momentum

$$p = mv$$

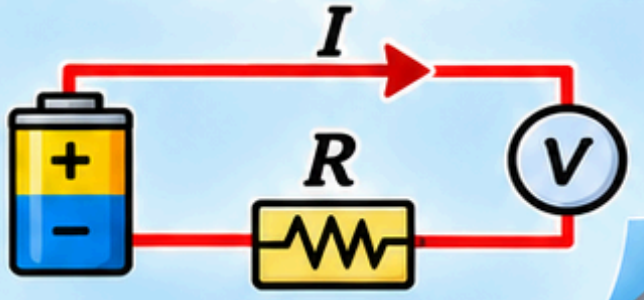
Momentum = Jisim × Halaju



12. Hukum Ohm (Ohm's Law)

$$V = IR$$

Voltan = Arus Elektrik × Rintangan



13. Kuasa Elektrik (Electrical Power)

$$P = VI$$

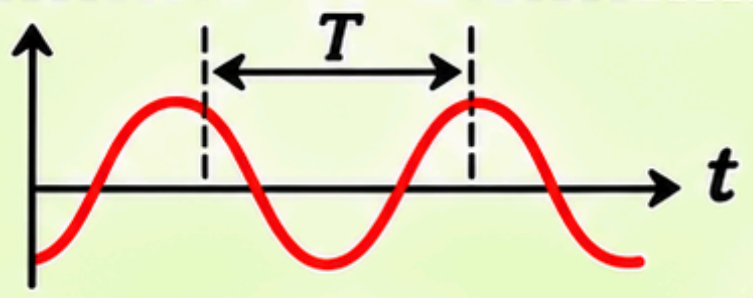
Kuasa Elektrik = Voltan × Arus Elektrik



14. Frekuensi (Frequency)

$$f = \frac{1}{T}$$

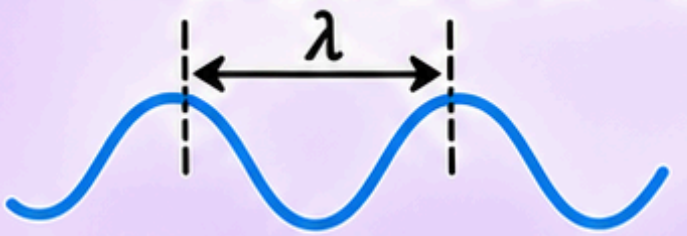
Frekuensi = 1 ÷ Tempoh



15. Laju Gelombang (Wave Speed)

$$v = f\lambda$$

Laju Gelombang = Frekuensi × Panjang Gelombang



- λ : Panjang gelombang
- f : Frekuensi
- v : Laju gelombang

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15 FORMULA PENTING FIZIK

Formula Asas yang Wajib Anda Ketahui

1 Laju *(Speed)*

$$v = \frac{d}{t}$$



Laju = Jarak ÷ Masa

2 Jarak *(Distance)*

$$d = v \times t$$



Jarak = Laju × Masa

3 Pecutan *(Acceleration)*

$$a = \frac{v - u}{t}$$



Pecutan = Perubahan Halaju ÷ Masa

4 Daya *(Force)*

$$F = ma$$



Daya = Jisim × Pecutan

5 Kerja *(Work)*

$$W = Fd$$



Kerja = Daya × Sesaran

6 Kuasa *(Power)*

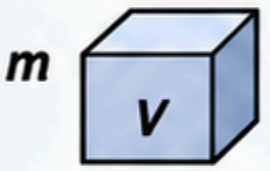
$$P = \frac{W}{t}$$



Kuasa = Kerja ÷ Masa

7 Ketumpatan *(Density)*

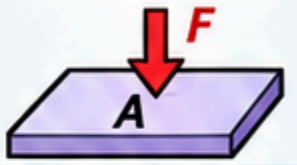
$$\rho = \frac{m}{V}$$



Ketumpatan = Jisim ÷ Isi Padu

8 Tekanan *(Pressure)*

$$P = \frac{F}{A}$$



Tekanan = Daya ÷ Luas Permukaan

9 Tenaga Kinetik *(Kinetic Energy)*

$$E_K = \frac{1}{2}mv^2$$



Tenaga Kinetik = ½ × Jisim × Halaju²

10 Tenaga Keupayaan Graviti *(Gravitational Potential Energy)*

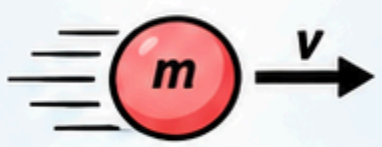
$$E_P = mgh$$



Tenaga Keupayaan Graviti = Jisim × Pecutan Graviti × Ketinggian

11 Momentum

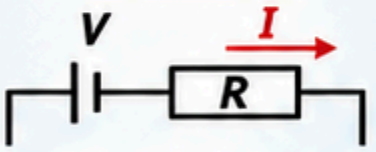
$$p = mv$$



Momentum = Jisim × Halaju

12 Hukum Ohm *(Ohm's Law)*

$$V = IR$$



Voltan = Arus Elektrik × Rintangan

13 Kuasa Elektrik *(Electrical Power)*

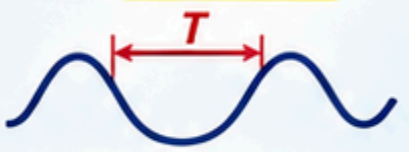
$$P = VI$$



Kuasa Elektrik = Voltan × Arus Elektrik

14 Frekuensi *(Frequency)*

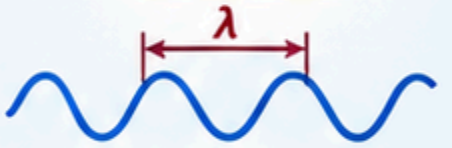
$$f = \frac{1}{T}$$



Frekuensi = 1 ÷ Tempoh

15 Laju Gelombang *(Wave Speed)*

$$v = f\lambda$$



Laju Gelombang = Frekuensi × Panjang Gelombang

Maksud Simbol dalam Formula

Simbol	Maksud
v	Laju atau halaju
u	Halaju awal
d	Jarak atau sesaran, mengikut formula
t	Masa
a	Pecutan
F	Daya
m	Jisim
W	Kerja
P	Kuasa atau tekanan, mengikut formula
ρ	Ketumpatan

Simbol	Maksud
A	Luas permukaan
V	Isi padu atau voltan, mengikut formula
g	Pecutan graviti
h	Ketinggian
p	Momentum
I	Arus elektrik
R	Rintangan
f	Frekuensi
T	Tempoh
λ	Panjang gelombang

Belajar Hari Ini, Memimpin Masa Hadapan.

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