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Memorizing ~~Engineering Physics~~

~~Formulas~~

Common geometric Formulas

Circumference =  $2\pi r$  Area circle =  $\pi r^2$

Surface area (sphere) =  $4\pi r^2$

Volume (sphere) =  $\frac{4}{3}\pi r^3$  Volume

(rectangular solid) =  $lwh = \pi rh$

Velocity Average Velocity  $\bar{v} = \frac{\Delta x}{\Delta t}$

$\Delta t$

~~PHYS 2310 Engineering Physics I~~

~~Formula Sheets~~

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Grade School & Engineering  
Physics Formulas Reference Force  
(Newton's 2nd Law) Velocity ( $v$ )  
Density ( $\rho$ ) Drag Force  
Gravitational Force ( $g$ ) Buoyant  
Force Momentum Angular  
Velocity ( $\omega$ ) Escape Velocity  
Orbital Velocity Dynamic Viscosity  
Kinematic Viscosity Kinetic  
Energy Rotational Kinetic Energy  
...

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Physics Formulas Reference~~

In a bar of material with a cross-sectional area  $A$ , length  $L$ , and a temperature difference across the ends of  $\Delta T$ , there is a heat flow over a time,  $t$ , given by these formulas: The pressure,  $P$ , and volume,  $V$ , of  $n$  moles of an ideal gas at temperature  $T$  is given by

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This formula, where  $R$  is the gas constant:

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The formulas for motion in one dimension (Also called

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~~Formulas~~ Kinematical equations of motion) are as follows. (Here 'u' is initial velocity, 'v' is final velocity, 'a' is acceleration and t is time):  $s = ut + \frac{1}{2} at^2$ .  $v = u + at$ .  $v^2 = u^2 + 2as$ .  $v_{av}$  (Average Velocity) =  $(v+u)/2$ .

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T F = Efficiency  $d = d_{00}$  Energy:  
Work  $W = work$   $F = force$   $d =$

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Formulas  
distance Fluid Mechanics 1 T ' L  
Power (Guy-L ' L P 1 V 1 = P 2 V 2  
B y ' L Q = Av A 1 v 1 = A 2 v 2 +  
V absolute pressure = gauge  
pressure + atmospheric pressure  
P = absolute pressure Force A =  
Area V = volume T T = absolute  
temperature Q = flow rate

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where  $\theta$  is the angle of rotation  
about an axis defined by a unit  
vector  $n$ . Kinetic energy.  $\Delta E_k =$   
 $W = \frac{1}{2} m (v^2 - v_0^2)$



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$\Delta E_k = W = \frac{1}{2} m (v^2 - v_0^2)$  Elastic potential energy. For a stretched spring fixed at one end obeying Hooke's law :

~~List of equations in classical mechanics — Wikipedia~~

Drake equation (aka Green Bank equation) Earth Similarity Index. Einstein's field equation. Einstein–Maxwell–Dirac equations. Euler equations (fluid dynamics) Euler's equations (rigid body dynamics) Relativistic Euler equations. Euler–Lagrange equation. Faraday's law of induction.

~~List of equations — Wikipedia~~  
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