

## PHYS2080 Equation Sheet

### Thermodynamics

$$\sigma = 5.67 \times 10^{-8} \text{ W m}^{-2} \text{ K}^{-4}$$

$$k_B = 1.38 \times 10^{-23} \text{ J/K}$$

$$R = 8.31 \text{ J/(mol.K)}$$

$$T_K = T_C + 273 \text{ K,}$$

$$\Delta T_K = \Delta T_C$$

$$T_F = \frac{9}{5} T_C + 32^\circ \text{F,}$$

$$T_C = \frac{5}{9} (T_F - 32)$$

$$\Delta L = \alpha L_0 \Delta T$$

$$\Delta A \approx 2\alpha A_0 \Delta T$$

$$\Delta V = \beta V_0 \Delta T \approx 3\alpha V_0 \Delta T$$

$$P_{\text{conduction}} = \frac{Q}{\Delta t} = k \frac{A}{l} (T_{\text{hot}} - T_{\text{cold}})$$

$$P_{\text{radiated}} = \frac{Q}{\Delta t} = \sigma e A T^4$$

$$PV = nRT,$$

$$nR = Nk_B$$

$$n = \frac{m}{M} = N/N_A$$

$$Q = mc\Delta T$$

$$Q = \pm mL$$

$$\text{At constant pressure: } Q = nC_P \Delta T$$

$$\text{At constant volume: } Q = nC_V \Delta T$$

$$C_P = C_V + R$$

$$K_{\text{avg,translational}} = \frac{3}{2} k_B T$$

$$K_{\text{tot}} = \frac{3}{2} Nk_B T = U \text{ (monoatomic gas)}$$

$$v_{\text{rms}} = \sqrt{\frac{3RT}{M}} = \sqrt{\frac{3k_B T}{m}}$$

$$v_{\text{avg}} = \sqrt{\frac{8RT}{\pi M}}$$

$$v_{\text{mp}} = \sqrt{\frac{2RT}{M}}$$

$$\Delta U = Q - W$$

$$\text{Isobaric process: } W = P\Delta V$$

$$\text{Isochoric process: } W = 0$$

$$\text{Isothermal process: } W = nRT \ln \frac{V_f}{V_i} = Nk_B T \ln \frac{V_f}{V_i} = P_i V_i \ln \frac{V_f}{V_i} = P_f V_f \ln \frac{V_f}{V_i}$$

$$PV = \text{constant}$$

$$PV^\gamma = \text{constant}$$

$$\gamma = C_P / C_V$$

$$W = Q_h - Q_c$$

$$e = W / Q_h = 1 - \frac{|Q_c|}{Q_h}$$

$$e_{\text{Carnot}} = 1 - \frac{T_C}{T_H}$$

$$\text{COP: } K_{\text{Cooling}} = \frac{Q_c}{W_{\text{motor}}} = \frac{Q_c}{|Q_h| - Q_c}$$

$$K_{\text{Heating}} = \frac{|Q_h|}{W_{\text{motor}}} = \frac{|Q_h|}{|Q_h| - Q_c}$$

$$\text{Carnot COP } K_{\text{Carnot,Heating}} = \frac{T_h}{T_h - T_c}$$

$$K_{\text{Carnot,Cooling}} = \frac{T_c}{T_h - T_c}$$

### Basic Geometry

$$A_{\text{sphere}} = 4\pi R^2$$

$$A_{\text{cube}} = 6a^2$$

$$A_{\text{triangle}} = \frac{1}{2} bh$$

$$V_{\text{cylinder}} = \pi R^2 h$$

$$V_{\text{sphere}} = \frac{4}{3} \pi R^3$$

$$V_{\text{cube}} = a^3$$

# Thermodynamics 3rd Sem Notes Pdf

**J Dewey**



**Thermodynamics 3rd Sem Notes Pdf:**

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web reading and writing part 7 questions 25 30 look at the three pictures write the story shown in the pictures write 35 words or more

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web paper 1 reading and writing 1 hour 10 minutes in the ket reading and writing paper parts 1 5 focus on reading and parts 6 9 focus on writing there is a total of 56

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web handout 1 a broken computer handout 2 a2 key for schools writing part 7 sample answers handout 1 possible answers the student was doing homework when he

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web ket reading writing part 7 difficulty level a2 elementary this activity helps with part 7 of the reading and writing paper complete these letters write one word for each

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web mike s best friend s name is juan he is mexican and he is student my parents teachers work in a junior high school in the morning go to school by car and me and my brothers

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web to prepare for the a2 key for schools exam learners should have plenty of practice reading and writing the kinds of texts they will see in the exam for the writing tasks

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web hi my name is rachel and i am eleven 1 old i live in scotland 2 a small village near edinburgh when i grow 3 i would like to 4 a vet because i love animals and want 5