

<p><b>Kinematics</b></p> $d = v_i t + \frac{1}{2} a t^2$ $v = v_i + a t$ $v^2 = v_i^2 + 2 a (d - d_i)$ <p><b>Dynamics</b></p> $\Sigma F = m a$ $F = m a$ $F = \frac{G m_1 m_2}{r^2}$ $F = \frac{G m}{r^2}$ <p><b>Centripetal Acceleration</b></p> $a = \frac{v^2}{r}$ $F = \frac{m v^2}{r}$ $F = \frac{m v^2}{r}$ $v = \frac{2 \pi r}{T}$ <p><b>Energy</b></p> $KE = \frac{1}{2} m v^2$ $PE = m g h$ $PE = \frac{1}{2} k x^2$ $P = \frac{W}{t}$ $P = I V$ $E_1 + E_2 = E_3$ $P_{series} = I V$ $P_{parallel} = \frac{1}{2} I V$ <p><b>Momentum</b></p> $p = m v$ $\Sigma p_i = \Sigma p_f$ $m_1 v_1 + m_2 v_2 = m_1 v_1' + m_2 v_2'$ $v_1 = v_1' + \Delta v$ $v_2 = v_2' + \Delta v$ $v = v_i + a t$ $v = v_f$	<p><b>Electrostatics, Fields and Potential</b></p> $F = \frac{k q_1 q_2}{r^2}$ $E = \frac{F}{q}$ $E_{point} = \frac{k q}{r^2}$ $E_{line} = \frac{2 k \lambda}{r}$ $E_{sheet} = \frac{\sigma}{2 \epsilon_0}$ $E_{cylinder} = \frac{\rho r}{\epsilon_0}$ $E_{sphere} = \frac{Q r}{4 \pi \epsilon_0 r^2}$ $V = \frac{k q}{r}$ <p><b>Electric Current</b></p> $I = \frac{Q}{t}$ $I = n e v_d A$ $R = \rho \frac{L}{A}$ $P = I^2 R$ $P = I V$ <p><b>Resistors in Series</b></p> $V_T = V_1 + V_2 + V_3$ $I_T = I_1 = I_2 = I_3$ $R_{total} = R_1 + R_2 + R_3$ <p><b>Resistors in Parallel</b></p> $V_T = V_1 = V_2 = V_3$ $I_T = I_1 + I_2 + I_3$ $\frac{1}{R_{total}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3}$ <p><b>EMF</b></p> $\mathcal{E} = I R + I r$ $\Delta V = \mathcal{E} - I r$ <p><b>Magnetic Fields</b></p> $F = I L B \sin \theta$ $B = \frac{\mu_0 I}{2 \pi r}$ $B = \frac{\mu_0 I}{2 \pi r} \frac{L}{l}$	<p><b>Magnetic Flux</b></p> $\Phi = B A$ $F = \frac{d \Phi}{dt}$ $F = \frac{d(B A)}{dt}$ <p><b>Mass</b></p> $F = \frac{d p}{dt}$ $F = \frac{d(m v)}{dt}$ $F = \frac{d(m v)}{dt}$ $F = \frac{d(m v)}{dt}$ <p><b>Mass - Spring SHM</b></p> $F = -k x$ $F = -k x$ <p><b>Pendulum SHM</b></p> $T = 2 \pi \sqrt{\frac{L}{g}}$ $F = \frac{1}{2} \frac{d^2 x}{dt^2}$ <p><b>Open Tubes</b></p> $f_n = \frac{v}{\lambda_n} = n \frac{v}{2L}$ $f_n = \frac{v}{\lambda_n} = n \frac{v}{2L}$ $n = 1, 2, 3, \dots$ <p><b>Closed Tubes</b></p> $f_n = \frac{v}{\lambda_n} = n \frac{v}{4L}$ $f_n = \frac{v}{\lambda_n} = n \frac{v}{4L}$ $n = 1, 2, 3, \dots$ <p><b>Light</b></p> $v = \frac{c}{n}$ $v = \frac{c}{n}$ <p><b>Double Slit</b></p> $d \sin \theta = m \lambda$ $d \sin \theta = m \lambda$	<p><b>Single Slit</b></p> $d \sin \theta = m \lambda$ <p><b>Quantum Physics</b></p> $E = h f$ $E = h f$ <p><b>Constants</b></p> $c = 3.0 \times 10^8 \frac{m}{s}$ $G = 6.67 \times 10^{-11} \frac{N m^2}{kg^2}$ $m_p = 1.67 \times 10^{-27} kg$ $m_n = 1.67 \times 10^{-27} kg$ $h = 6.63 \times 10^{-34} \frac{J s}{rad}$ $k = 1.38 \times 10^{-23} \frac{J}{K}$ $k_{spring} = 1.5 \times 10^{11} \frac{N}{m}$ $m_{spring} = 5.1 \times 10^{11} kg$ $m_{spring} = 1.67 \times 10^{11} kg$ $\frac{d v}{dt} = 2 \times 10^7 \frac{m}{s^2}$ $v = 3.0 \times 10^7 \frac{m}{s}$ $h = 6.63 \times 10^{-34} J s$ <p><b>Conversions</b></p> $1 \text{ meter} = 10^3 \text{ mm}$ $1 \text{ km} = 10^3 \text{ m}$ $1 \text{ second} = 10^3 \text{ ms}$ $1 \text{ minute} = 10^2 \text{ s}$ $1 \text{ hour} = 10^4 \text{ s}$ $1 \text{ year} = 10^7 \text{ s}$ <p><b>Geometry</b></p> $V = \frac{1}{2} A h$ $A_{circle} = \pi r^2$ $A_{sphere} = 4 \pi r^2$ $V_{cylinder} = \pi r^2 h$
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# I Solution To Conceptual Physics

**R Sandford**



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