

Constants and Relations for PH 220 Quizzes and Exams

$g = 9.80 \text{ m/s}^2$	$G = 6.67 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$	$2\pi \text{ rad} = 360^\circ$	$1 \text{ hr} = 3600 \text{ s}$
$1 \text{ km} = 10^3 \text{ m}$	$1 \text{ m} = 10^2 \text{ cm}$	$1 \text{ cm} = 10 \text{ mm}$	$1 \text{ kg} = 10^3 \text{ g}$
$I_{\text{Disk}} = \frac{1}{2} MR^2$	$I_{\text{Sphere}} = \frac{2}{5} MR^2$	$I_{\text{Ring}} = MR^2$	$I_{\text{Rod}} = \frac{1}{12} ML^2$
$I_{\text{Orbit}} = MR^2$	$\rho_{\text{water}} = 1000 \text{ kg/m}^3$	$\rho_{\text{air}} = 1.29 \text{ kg/m}^3$	$1 \text{ atm} = 1.013 \times 10^5 \text{ Pa}$

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