Equation Sheet 1

$g = 9.80\,\mathrm{m/s^2}$ $\quad 1\,\mathrm{in} = 2.54\,\mathrm{cm}$ $\quad 1\,\mathrm{mi} = 1.609\,\mathrm{km}$ $\quad 1\,\mathrm{mi/h} = 0.447\,\mathrm{m/s}$

$2\pi\,\mathrm{radian} = 360^\circ$ $\quad \sin\theta = \mathrm{opp/hyp}$ $\quad \cos\theta = \mathrm{adj/hyp}$ $\quad \tan\theta = \mathrm{opp/adj}$

$a^2 + b^2 = c^2$ $\quad \dfrac{-b \pm \sqrt{b^2 - 4ac}}{2a}$ $\quad \Delta x = x_2 - x_1$ $\quad \overline{v} = \Delta x/\Delta t$ $\quad \overline{a} = \Delta v/\Delta t$

$v = v_o + at$ $\quad \Delta x = v_o t + \dfrac{1}{2}at^2$ $\quad v^2 = v_o^2 + 2a\Delta x$ $\quad \Delta x = \dfrac{(v + v_o)}{2}t$