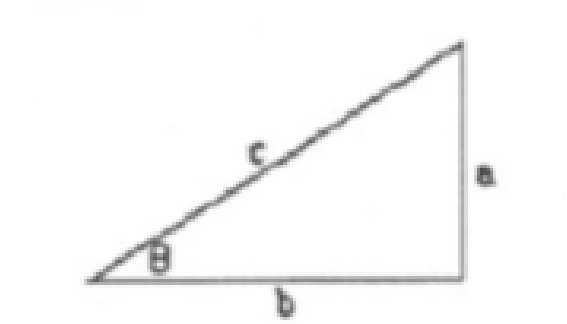
Physics 160 Exam 1

Instructions:

- Please do not write on the exams. They will be used for the next class.
- Blank paper will be on the center table for you to use for your calculations.
- Please fill in the scantron sheet provided. You should fill in your name and student ID number.



$x = x_0 + v\Delta t$

$x = x_0 + v_0\Delta t + \frac{1}{2}a\Delta t^2$

$v = v_0 + a\Delta t$

$v^2 = v_0^2 + 2a\Delta x$

$g = 9.8\ m/s^2$

1 km=0.621 mi

1 d=24 h

1h=3600 s

$a^2 + b^2 = c^2$

$\sin\theta = \frac{a}{c}$

$\cos\theta = \frac{b}{c}$

$\tan\theta = \frac{a}{b}$

If $Ax^2 + Bx + C = 0$ then $x = \frac{-B \pm \sqrt{B^2 - 4AC}}{2A}$

$C = 2\pi r$

$A = \pi r^2$

$V = \frac{4}{3}\pi r^3$

$V = L^3$

$V = 4\pi r^2 \Delta r$