An airplane motor delivers Nm of torque to a kg propeller in meters in total length. Angular acceleration of the propeller?

A = F / (1/12ML^2)

A pendulum has a period of t, how long is it in meters?

T = 2pi(sqrt(l/g))

A cannonball is fired with an initial velocity of v, at O degrees

sinO \* v / 10

A X kg crate slides down a O degree inclined ramp. The coefficient of kinetic friction of k. acceleration?

gsinO - kgcosO

RKE of space ships with a meter cable holding them together as they rotate around each other is space

(((M(L/2)^2)\*2)\*(rpm\*2Pi/60))\*(rpm\*2Pi/60))

Tangential velocity of a pebble

2piD \* rotates

The x component of a vector is v, and its magnitude is w, angle?

Cos^-1(v/w)

Meter radius disked dropped, final angular velocity?

I1w1 = (I1 + I2)Wf

I = ½MR^2

A pulley has a M gram mass hanging on the left side, and a m gram mass hanging on the right side. What is the downward acceleration of the pulley on the left?

(M\*g – m\*g) / (M+m)

A spring pendulum with a constant of k has a period of T, mass?

T = 2Pi (Sqrt(m/k))

A flywheel going X rad/s accelerates V rad/s2, as it turns x, final angular velocity

Vf^2 = vo^2 + 2ax

If a X kg cart has J joules of KE, how fast is it moving?

1/2MV^2 = J

Two kryptonite spheres, force of gravity?

= G(m1 + m2) / R^2

A X beam rotates about an axis 1/4 of its length in from one end.

M(L/4)^2 + 1/12ML^2