

[mex16] Projectile in resistive medium

A particle of mass m is projected vertically upward with initial velocity v_0 against a uniform gravitational field g and against a resistive force

(a) $F(v) = -\beta v$, (b) $F(v) = -\gamma v^2$.

In each case find the maximum height h reached by the particle and the time T it takes to get there.

Solution: