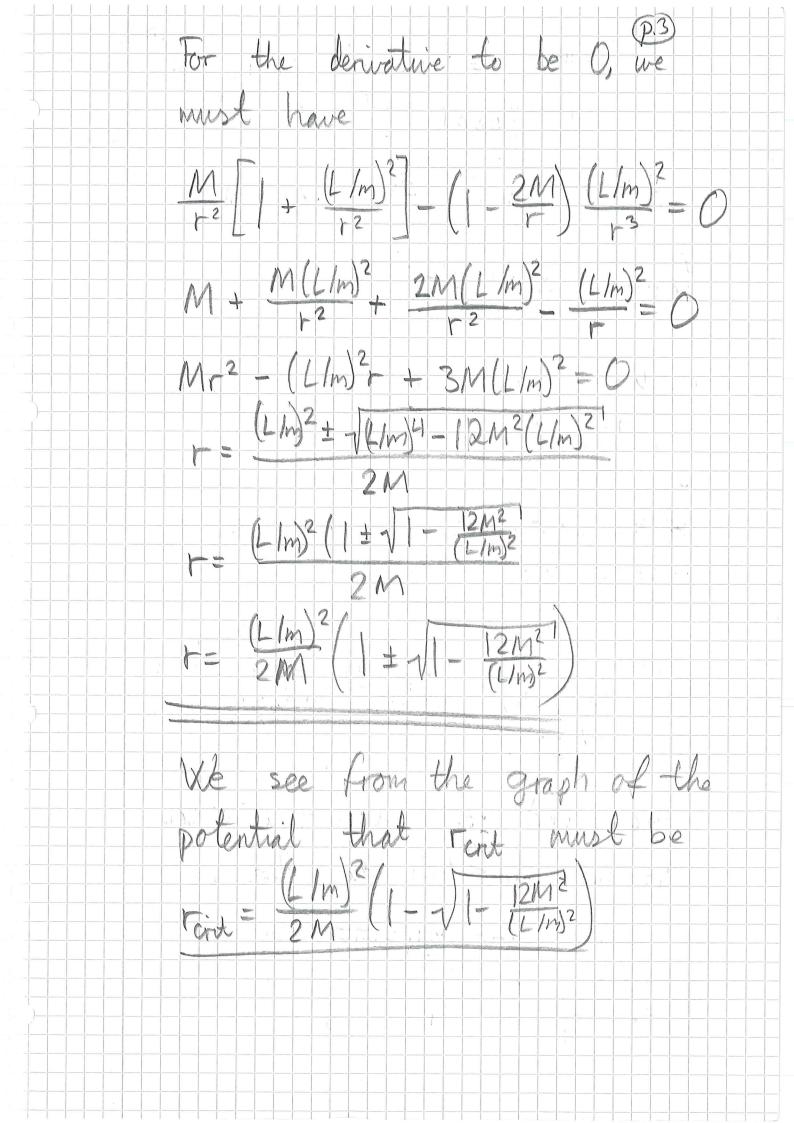


For short time interials desh we can use special relativity. Then d) = at' and dt h = at, so dt h = at = dt' = dt' = d. Where I was the velocity Vsh, so we call A John This gives $\frac{1}{m} = \sqrt{1 - \frac{2M'}{3h}}$ We know that in Schwarzschild geometry Veff (+) = V (1-2M) [1+ (4/m)²]. We want to find the extremes, so we calculate the desirable Veft (r) = 2 V(1-2m)[1+4/m2] (2M) $(1+(1/m)^2)$ $+(1-2m)(-2(1/m)^2)$



know that In - 2 do do do den den We already do is the angular relocity of the object measured by the stationary shell observer. We know that do yosh where yosh is the tangential velocity measured by the shell observer. Since the angle between the radial vector and the velocity vector of the rocket is O we get Vosn = Vsn sino. So do Vensino this gives

