m hosse or friend problem? solve well then start is crossed we 513'... so Then increase m and find the general solution? Answer: 00=1 , 0=2 In order them to require same amount of time both should walk same and diotance and on horse same and of time. (x- x vm) vm d-22 Vmt $= \frac{1}{\sqrt{n}} \sqrt{m} + \frac{1}{\sqrt{n}} \left(\sqrt{n} + \sqrt{n} \right) \sqrt{m}$ $= \sqrt{n} \left(\sqrt{n} + \sqrt{n} \right) \sqrt{m}$ $= \sqrt{n} \left(\sqrt{n} + \sqrt{n} \right) \sqrt{m}$ $= \sqrt{n} \left(\sqrt{n} + \sqrt{n} \right) \sqrt{m}$ Vn (vntvm) $=\frac{22^{\sqrt{m}}\sqrt{n}}{\sqrt{n}(\sqrt{n+\sqrt{m}})}$ = 22 vm vn + 21 vn (vn+vm) wn (Untvm) d Vn (vhtvm) - 7 2 Vn [2Vm+ (vn+ vm)] d (VntVm) (Vn+3Vm)

m=1 7 n=3 here, friend walks $\frac{x}{v_n}v_m + \frac{(x-\frac{x}{v_n}v_m)v_m}{v_m+v_n}$ the 2nd fraction is for the horse to go back.
so, 3rd friends equation will be d-72 2 [2 [x vm + . (2 - 2 vm) vm 22 d (Vn+Vm) + Vm+vn Vn+5vm As we increase the value of n we can see the following gonerie (Vnt Vm) V1 + (2m-1) Vm (ny /ni) + mo JS] (mV+nV) 6