direction Sield (stipe field) $\frac{dy}{dt} = -2y$ y = 15, slope = -3 y = 1, slope = -2

$$(1+2y^2)dy = \cos x dn$$

$$w(n) = 6 Mem$$

$$(R+n)^2$$

$$\sqrt{2}$$

$$\frac{GMem}{R^2} = mg$$

$$V(0) = V_0$$

$$JV = JV JV = VJV$$

$$JV = JV JV = JV$$

 $V = -\frac{gR^2}{(R+n)} = \frac{gR^2}{(R+n)}$ $\frac{\sqrt{3}}{2} = \frac{gR}{(R+n)}$ $\frac{\sqrt{3}}{2} = \frac{gR}{(R+n)}$ $\frac{\sqrt{3}}{2} = \frac{2gR}{(R+n)}$ $0 = \frac{2gR^{3} + v_{o}^{2} - 2gR \rightarrow v_{o}^{2}}{R \rightarrow R}$ = 29 (RH) RHH) Ve = 2g R => Ve = JZgR

y'=3 y²/3 3 dn $\frac{3}{3} + 3C$ $(n+c)^3$ k<n< > k > 0

 $f(tn_1, tn_2, -, tn_n) = tf(n_1, n_2, --, n_n)$ $M(n,y) + N(n,y) \frac{dy}{dn} = 0, y = vu$ M(n,vn) + N(n,vn)(u+ndv) = 0 = x + n dv = x + n dv

$$\frac{v^{2}-1}{v(v^{2}+1)} = \frac{a+bv}{v^{2}+1} + \frac{c}{v}$$

$$v^{2}-1 = (a+bv)v + ((v^{2}+1))$$

$$v^{2}-1 = (a+bv)v$$