Homogeneous Differential Equations. Homogeneous Got equation power: every same. = -f1 (x,x) 12 (xiy) dy = V + x dxb - vb (2x+y2) dx + 2xy dy=0 & (xityr) da = = 2ny dy 2xy = 3+dy / 10/10. dy = V+X dr = Y+X rot 0 - Kt - 1 log | 1+3v2 + log c | 10gx logx + [ log] 1+34 +34 +200 = log( 1+34 )= log(

v(1+v3

t 1090

dy = V+ x dv TYY = V+X dv -V(1+VV) 9-5-dv-(-tdv

vologing - top ( this policy 1+ 数= 数 ) 数 Sin = | dz -1 + 16 sinz + ( ) dz - Wbx-e (vi) d7=d2 = (NB) mis (iv) 1-5m²z dz=Jdx 1-sin2 dz=Janini) seez dz - serz tonz d tane - secz = se +e fan(xty) - sec(xty) = x

$$(xiv) y'' + x' dy = \pi y dy$$

$$y'' = (\pi y - \pi x') dy$$

$$y'' = (\pi y - \pi x') dy$$

$$y'' = \sqrt{2} x$$

$$y' = \sqrt{2} x$$

$$y'' = \sqrt{2} x$$

$$y''$$

JIdv - Stdv = Stdx Inv = Inx +C Inx tInv cosx dx + esinn dy= - In Isinal sinx (et +1) !=

$$\frac{dy}{dx} = \frac{e^{x-y}}{e^{x}} + \frac{1}{2}e^{x}$$

$$\frac{dy}{dx} = \frac{e^{x}}{e^{x}} + \frac{1}{2}e^{x}$$

$$\frac{dy}{dx} = \frac{e^{y}}{e^{x}} + \frac{1}{2}e^{x}$$

$$\frac{dy}{dx} = \frac{e^{y}}{e^{x}} + \frac{1}{2}e^{x}$$

$$\frac{dy}{dx} = \frac{e^{y}}{e^{x}} + \frac{1}{2}e^{x}$$

$$\frac{dy}{dx} = \frac{e^{x}}{e^{x}} + \frac{1}{2}e^{x}$$

$$\frac{e^{x}}{e^{x}} + \frac{1}{2}e^{x}$$

$$\frac{$$