$$e^{2} = c_{1}e^{2} - c_{2}$$
 $e^{2} = -2c_{2}$
 $e^{2} = -2c_{2}$
 $e^{2} = -2c_{3}$
 $c_{1} = c_{1}$
 $c_{1} = c_{2}$
 $c_{2} = c_{3}$
 $c_{3} = c_{4}$
 $c_{4} = c_{5}$
 $c_{5} = c_{5}$
 $c_{6} = c_{5}$
 $c_{6} = c_{5}$
 $c_{6} = c_{6}$
 $c_{6} = c_{6}$
 $c_{6} = c_{6}$

2. dP dt 2 B-D where Bis the birth rafe, and D is the death rate BabPCO dp D=dple dt z (b-d) p 5, 702/170 Tun 275 115 dT 2-1 When T=85 dT 2-1= k(85-75) => k2-0,1 2-1 (10- $\frac{dJ}{dt} = g - \frac{k}{m} \sqrt{20} = 20 = 2 \text{ V} = \frac{gm}{k}$ According to the phase portrait,

mg

c is an attractor, when t->as

max $\frac{1}{y^2} = (x+1)^2 > \int y dx = y^2 = \frac{cx+1}{3} + c$ (b dQ = kdt In(Q-70) = let+C ± 0-702 elt te 0= telt +70+C (-0) $\frac{ay}{dx} = \frac{2}{y} - \frac{3}{y}$ $\frac{dy}{dx} = \frac{3}{y}$ $\frac{dy}{dx} = \frac{3}{x}$ (41)-fldge &dx

In
$$\frac{y-1}{y}$$
 = $\ln(y)$ fc
In $\frac{y-1}{y}$ = c
 $\frac{y-1}{y}$ = c
 $\frac{y-1}{y}$ = c
 $\frac{y-1}{y}$ = c
 $\frac{y-1}{y}$ = c
No, IVP solution, for a deferrable
and pass (0,0) => $y=0$
 $\frac{y-1}{y}$ = $\frac{y-2}{y}$
 $\frac{y-2}{y}$ = $\frac{y-2}{y}$ $\frac{y-2}{y}$ =

$$= cy + 2y^{2}$$

$$1 = 5c + 50 = > c = \frac{19}{5}$$

$$x = -\frac{19}{5}y + 2y^{2}$$

$$x = 2(y^{2} - \frac{19}{5}y) + \frac{19}{500} - \frac{240}{200}$$

$$= 2(y^{2} - \frac{19}{5}y + \frac{19}{500}) - \frac{240}{200}$$

$$= > x + \frac{290}{20} = 2(y - \frac{19}{20})^{2}$$

$$= > x + \frac{240}{20} + \frac{2}{20} = 2(y - \frac{19}{20})^{2}$$

$$= 2(y - \frac{19}{20}) + \frac{1}{20} = 2(y - \frac{19}{20})^{2}$$