Διά) εξη 10<sup>M</sup>: Διαφορικές εξιώνεις  $1^{MS}$  τάξης

Περιπουση  $1^{M}$ :  $Y(t) = (e^{at} o bosenis μορφά (Sev εποψε μερικά λία)$   $Y(t) = (e^{at} + (-\frac{B}{a})) (Μερικά ) νία)$ 

Iradição ontreio (Mepini 700): - 8 m y'=0=> y(+)= ontrio

Everadera: av a<0 engravires = everades
av a>0 anokhires = acreales

11.x 50 y = -y(4) +3 , a=-1, B=3

a <0 => oythina = Eustalis

TEUNCO Dy = y'

The pintower  $2^n$ :  $\frac{dy}{dx} = f(x) \cdot g(y)$   $\Rightarrow \left(\frac{1}{g(y)}\right) dy = \int f(x) + A$ 

Nox fra einhor: dy = y.xx

MEDITEMON 37: Divera Egionon 245 populis: 4+-4= bt, (1) Byta 10: Eupean A (4) = Sa (4) dt (Olovingula asak)) Byla 20: Saw (1) no) Janzaviaju a Sojio pipos pe e ACC) Brylia 3,4°: eA(4). y = eA(4). 6+ Bufuso: eA(+).y= seA(+).b+ d++c Byla 60:  $y = \frac{\int e^{A(t)} bt dt + C}{e^{A(t)}}$ 1.X fra Erisbon: y'- Sty = bt. TEpinowen 47:  $dy + f(x) \cdot y = g(x)$ , (1)  $\frac{dx}{dx}$   $\frac{\partial \dot{c}(x)}{\partial x} = \int_{0}^{\infty} f(x) dx$  $\underline{(1)} \quad \underline{(1)} \quad$ IW