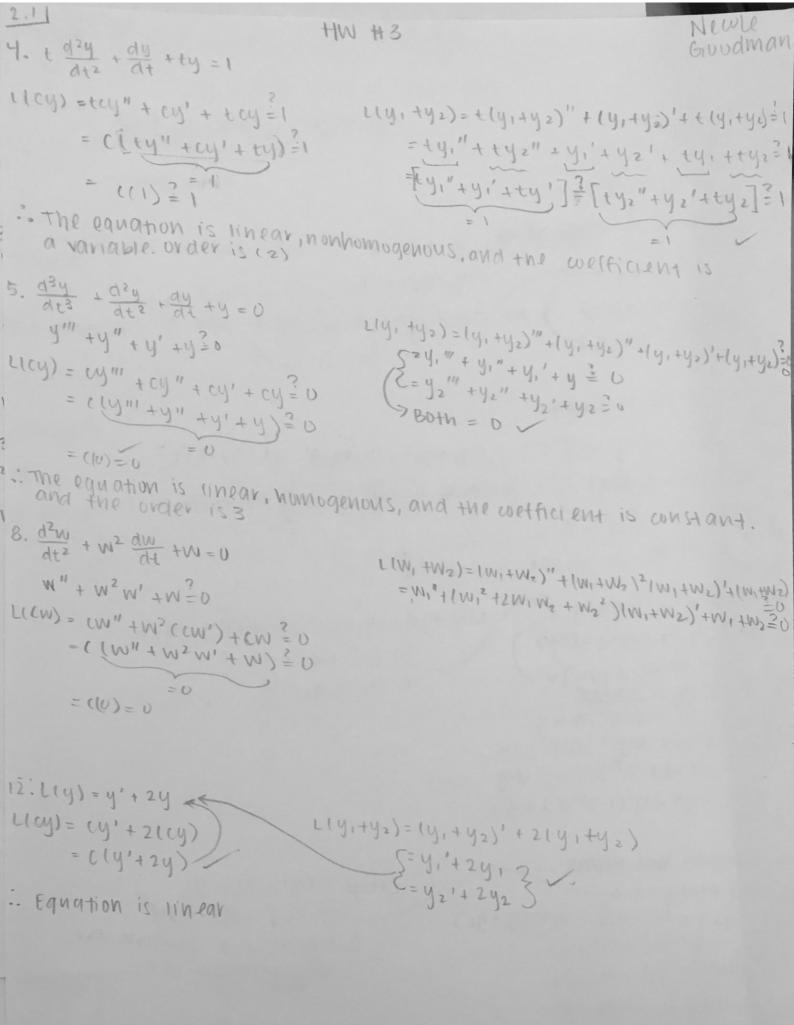
Solve for y':
$$ty' = 2 - y$$

$$y' = 2 - y$$

$$y' = 2 - y$$

$$t = 2 - 0 = und [-...not continuous]$$
3. $y' = y''/3$
: $u(0) = 0$

a)
$$\frac{dy}{dt} = |y|$$



Partz 1 HW#3 1. a) y=y y(t)=cet cet=cetry'=cet MyELS C70 b) M(t)=cet of = cet 2 continuous $-ce^{-t} = -ce^{-t}$ $y(t) = ce^{-t}$ where ced) Y(t)=ce-t 2+ = -ce-t ", continuous y'= flt,y) = 1y1 = { y if y>0 ; y(0) = 0 (Jes, fitig) is continuous for all values of t andy

According to graph this represents

all values of y and t. It 14 = 0, meaning that for any value of y there will always be a solution. 4. fyltig) 5. y(0)=0

of cet=cet y(0)=ceo

y(0)=c < not always zero. 4'=141 (+)=ce+ .. a unique solution 24 ce-t = -ce-t cet= |cet| The region is always continuent.