Date. 19128 SMTWTFS

PartI

(1) y' = 4y - 3

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 $4y-3=0 \Rightarrow y=\frac{3}{4} (y'=0)$  $y>\frac{3}{4} \Rightarrow y'>0 [increase]$ 

y<¾ ≠ y'<0 [decrease]

(z) y' = -1 - zy

 $-1-7y=0 \Rightarrow y=\frac{1}{2}(y'=0)$   $y>-\frac{1}{2}\Rightarrow y'>0$  [mcrease]  $y<-\frac{1}{2}\Rightarrow y'<0$  [decrease]

Part I

(1) y' = y(4-y)

y(4-y)=0 = y=0 or 4 (y'=0) y<0 = y'<0 [decrease] 0<y<4 = y'>0 [mcrease] 4<y = y'<0 [decrease]

 $(2) U' = U(Y - Z)^{2}$ 

 $y(y-z)^2=0 \Rightarrow y=0 \text{ or } z (y'=0)$   $y<0 \Rightarrow y'<0 \text{ [decrease]}$   $0<y<z\Rightarrow y'>0 \text{ [mcrease]}$  $z<y\Rightarrow y'>0 \text{ [mcrease]}$ 



11)y' = -7 + t - y



$$-z+t-y=0 \Rightarrow y=t-z$$
  
 $y>t-z \Rightarrow y'>0$ . [Therease]  
 $y [clearease]$ 

-7 0