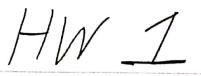
Trace Bloxnam Korytouski Math Modeling 1/25/22 40=100 Ay1=-441 4n+1=4n=-,4yn 4, - 40 = - . 440 4, -100= (-,4)100 4,=(-.4)100 +100 4, = -40 +100= 60

$$y_{1}+1 = y_{1} = -4y_{1}$$
 $y_{1}-y_{0}=-4y_{0}$
 $y_{1}-y_{0}=-4y_{0}$
 $y_{1}=-100=(-4)100$
 $y_{1}=-40+100=60$
 $y_{2}=-24+460=36$
 $y_{3}=21.6$
 $y_{4}=12.96$
 $y_{5}=7.776$



Q, 45 = 7.776

B. Yn+1= -,7 4, +41



2. How Much free time do I have each week. Variables Important time Quantity = amount important time Quality - how can time be used, ie. work break has limited freed factors		2. How Much from to
important time Quality - how can time be used, i.e. work break has limited freed factors	47	Variables Une do I have each we
factors		time Quantity - amount
factors		The can time be used
factors	edon	i.e. Work break has limited f
time waste-traffic, inefficient schodule		time wastp - traffic inefficient
Insortant Non-fitte time Quantity - amount		Ingertate Non-Free time Quartity - amount
time waste is hard to get clear measurner	ents	Time waste is hard to get clear measur
or, with a lot of Study you could get		or, with a lot of Study you could get
Some min mean max coefficients.		some min mean max coefficients.
it could be partially accounted for in		it could be partialy accounted for in
Quantity and Quality, then droped.		

#3. oretirment

Factors

· Saving Methods

- intended retirment age
- o Telisment life style (level of wealth in retirement)
- · Assets aquireably by retirement
- · Pre-Tetitement lifstyle/income
- o expected death age I health & family History
- · Environem+al Factors
- Everything but environnetal factors is Keepable. Stuff happens.
- ·With [Health and family life expectancy]

 [retirement age] = time frame.
- oretirement litityle = cest to gauge over)
- and from there we get: Savable money
- · put savable Money into the Saving Method with most likely high/sate returns,

40 90.4000 $y_1 = y_0(-100 + 400 - 200 - 200)$ $y_{n+1} = y_n - 100$ See code.

Assumptions of The students who stay, continued to stay

There are always people 1

bonus away from retirement

There are always people who don't return

There are always summer Job

Students who quit

The factory doesn't try to hime

More

#5.

I chose a recovery rate of 91/21, a little worse the 2018' flus rate, over 21 weeks

See code; ends way top puick need better a & B

Scratch @

2018 Influenza - according Wikipedia

Symptoms - deaths = 40948000/41,000 000

CDC - .99 Recovery rate

1 most... flu attinty peaks Dec. to Feb

Noverber -> March 5 monts X 4 +1

21 weeks