```
FROM PREVIOUS PAGE

dY = kY => Y=Y, ekt
        FOR POPULATION
         dP = kP ⇒ P=Pekt
P= ORIGINAL POPULATION

P= POPULATION AT TIME t

k= RELATIVE GROWTH RATE

Ex. 1 p.342 P(0) = 4936 MILLION (1986)

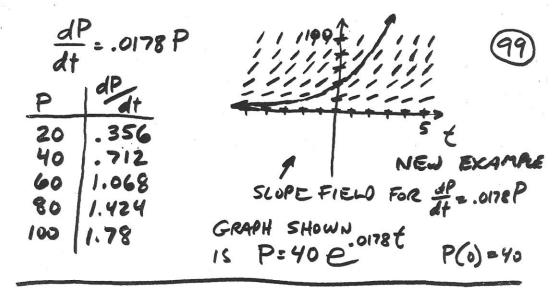
P=Poekt > 5023 = 4936 P(1) t=1 1987
        In 5023 = hek k=.0175
     FOR BRIEF TIME PERLUOS, A GOVO ESTIMATE
 FOR K IS \frac{5023}{4936} - 1 = .0176

AVERAGING SEVERAL RATIOS K = .0178

SO \frac{dP}{dt} = .0178P AND P = 4936C

CP IN MILLION

t = 24 2010 P = 4936C = 7567 MILLION
```



FOR ANOTHER SLOPE FIELD GRAPH

SEE FIG. 6.13 P. 344 LUGISTIC GROWTH

P= 100 1+9ē.1t

WE WILL SAVE A MURE AT = .001P(100-P)
DETAILED ANALYSIS OF LUGISTIC
GROWTH TO PERHAPS LATER IN THE YEAR.

Hwark p. 347 > 1,2,5,6,9,10,11,15