

P)

M

Logistic

$$M = 4000$$
 $Km = .001 (4000)$
 $P = \frac{4000}{1+Ce^{-1}t}$
 $200 = \frac{4000}{1+C}$
 $200 = \frac{4000}{1+C}$
 $C = 19$
 $C =$

4000 -1 = 0

=> max earrying

(Limit to growth)

$$\frac{P}{\frac{4000}{200}} - 1 = C$$

$$\frac{P}{4000} = \frac{1}{19e^{-4t}}$$

$$\frac{P}{19e^{-4t}}$$

$$\frac{P}{19e^{-4t}}$$