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Profit maxition condition MR = Mc and profit competition market

When P=16, 49=12

b) Problèt or loss: TR-TC

$$\frac{d^{2}\pi}{dq^{2}}^{2} = \frac{4}{80}, \text{ it is max at 3}$$

$$16 \times 3 = (12 + 4 \times 3 + 2 \times \alpha)$$

$$= -54$$

$$\cos = -54$$

Da) gives

$$Tc = 100 + a^2$$

Perofit $T = TR - Tc$

$$\frac{dTI}{dq} = price - 2q$$

If price = 60 to moximize profit $\frac{d\Pi}{dq} = 0$ P = 29 q = 30

= 1800 - 1000

-1800 Profit = 800 4) a) Produces surplus: area of triangle.

= 1 x 3 x b ANKEREN PERMIT " præduct of surplus = 9 R. Nishanth b) profit = TR-Tc 19BCN7186 TC = TUC + FC TUC = (AVC) +9 = (3+3) x3 : Tuc = \$ 18 FC \$ 3 TC = TVC + FC = 18 + 3 = \$ 21 Total Reverue : priese x a = 9 x 3 = \$27 Profit = 27-21 = \$6 Firm is a company super normal profit : producer supplies - Fixed 10st = 9-3=\$6

HE SHALL A