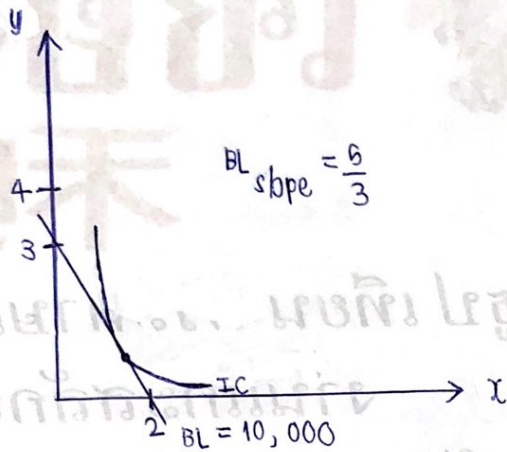


ໂລກໄທ micro

- ① Thailand = 3,000
- Maldives = 5,000
- $MU_{Mal} = 2MU_{Th}$

1a) if he had 10,000



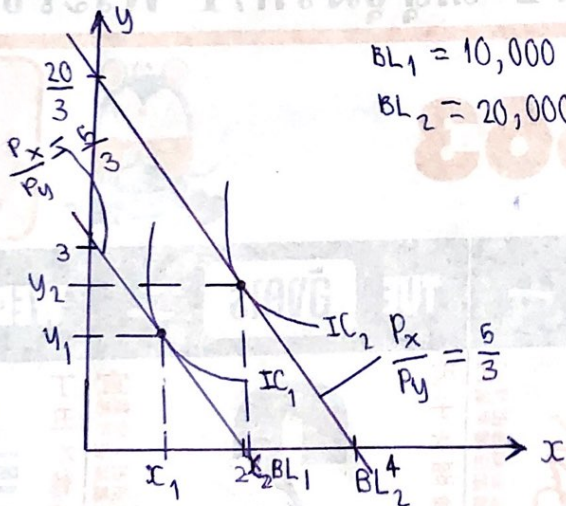
Let Maldives = x
Thailand = y

$$10,000 = 3,000y + 5,000x$$

$$\frac{P_x}{P_y} = \frac{5,000}{3,000} = \frac{5}{3}$$

$$MRS_{xy} = \frac{MU_x}{MU_y}$$

b) If he had 20,000



if he choose to spent all \$10,000, he would be able to make a choice of 2 trips to Maldives or 3 trips to Thailand. However, the place that he would choose to go depends on his "preference" which he already say that going to Maldives is twice satisfaction compare to Thailand

The demand traveling to Thailand would be more as the budget increase and the IC curve is higher. However, the slope of the IC remain the same compared to 10,000 bath budget.

$$20,000 = 3000y + 5000x$$

$$3000y = 5000x - 20,000$$

$$y = \frac{5,000}{3000}x - \frac{20,000}{3,000}$$

$$y = \frac{5}{3}x - \frac{20}{3}$$

Even though, the slope doesn't increased but he still able to spend more (he could go Maldives 4 times or go to Thailand 6 times. Thus, his demand going to Thailand Increase!!

$$MRS_{xy} = \frac{MU_x}{MU_y} = \frac{5}{3}$$

② Long-run production

2 inputs → labour & capital
 wage (w) interest (r)

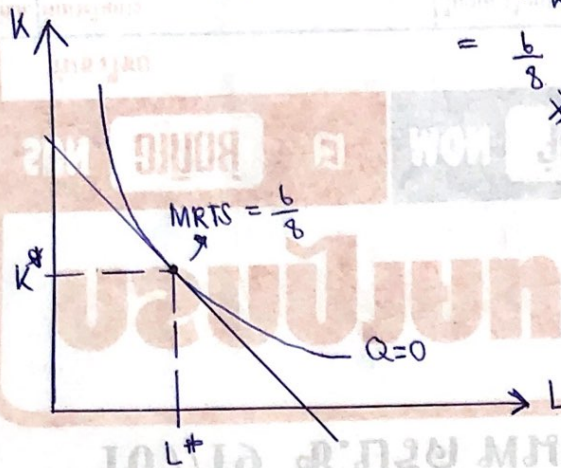
(L^*, k^*)

MP_L, MP_K

a) $MRTS = \frac{\text{change in labour}}{\text{change in capital}} = \frac{MP_L}{MP_K}$

$= \frac{6}{8}$

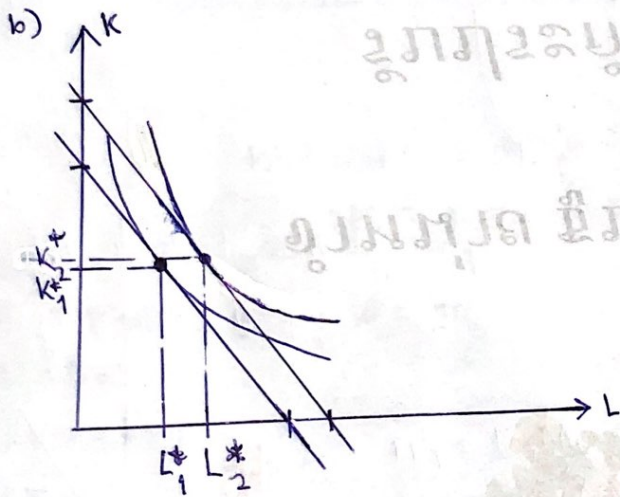
$\phi(k, L)$



output = Q_0
 market wage = \$3

$\frac{MP_L}{MP_K} = \frac{w}{r}$

$\frac{6}{8} = \frac{3}{r} \quad r = 4$



wage = \$4

$\frac{MP_L}{MP_K} = \frac{w}{r}$

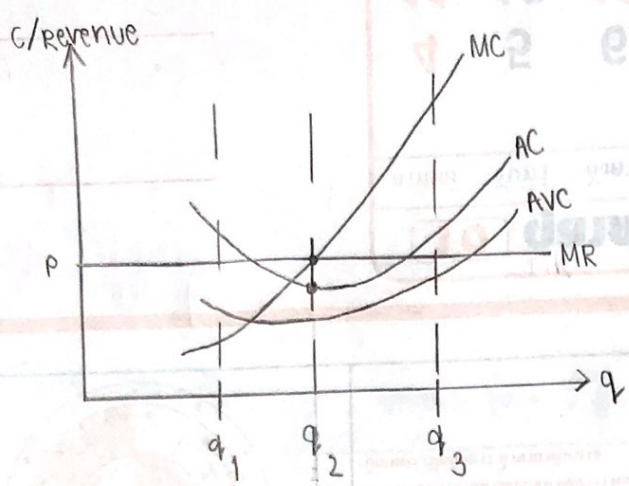
$\frac{6}{8} = \frac{4}{r}$

$r = \frac{16}{3}$

The interest rate at the equilibrium would increase from 4 to $\frac{16}{3}$ (approx. 33.33) the wage would increase too around 33.3%.

price 150

3a) 20 units = output
profit maximizing condition



consider q_1 : $MC < MR$
 $MR < AC$
 $AVC > MR$
↓
no economy of scale

consider q_2 : $MC = MR$
 $MR > AC \rightarrow$ Have economy of scale
 $MR < AVC \rightarrow$ more marginal cost

consider q_3 : $MC > MR$
 $MR < C$
more opportunity cost

∴ The quantity that maximize the profit is at q_2

b)

total cost = TFC + TVC

$AVC = ?$
 $AC = \$180$
 $AFC = \$60$
 $P = MR = \$150$

$AFC = \frac{TFC}{q}$
 $60 = \frac{TFC}{20}$
 $60(20) = TFC$
 $TFC = 1200$

$AC = \frac{TC}{20}$
 $180 = \frac{TC}{20}$
 $TC = 3600$

$AVC = \frac{2400}{20}$
 $= \$120$

Total variable cost = $TC - TF$
 $= 3600 - 1200$
 $= 2,400$

$\pi = TR - TC$
 $= 3,000 - 3,600$
 $= -600$

Total Revenue = $MR \times q$
 $= 150(20)$
 $= 3,000$

3c) No as the company couldn't make the profit out of business. In order to continue doing business, company should produce at this rate or produce nothing.

choice 1 producing at the same rate

total revenue = $\$150(20)$
 $= \$3,000$

profit = $TR - TC$
 $= 3,000 - 3,600$
 $= -600$ [lost 600]

$TFC = 1,200$
 $TC = 3600$
 $TVC = 2,400$

choice 2 stop production

total variable cost = \$ 120 (0)

= 0

total fixed cost = 1,200

TC = 0 + 1200

= 1200

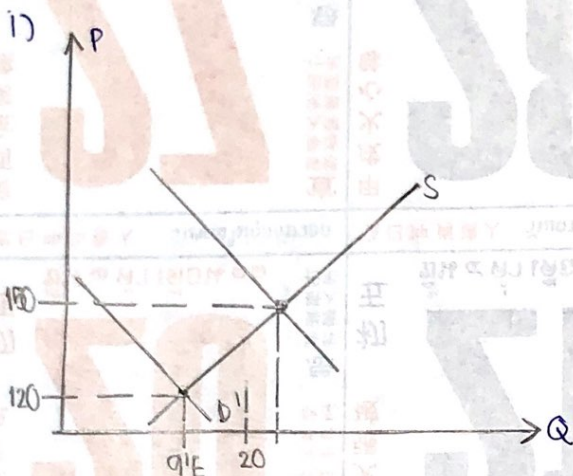
Total revenue = 0

profit = 0 - 1200

= -1200 [lost 1,200]

3 d) price ↓ \$ 120 / unit
demand ↓

original price = \$ 150 / unit



comparing 2 conditions

① continue producing

TVC = 120 × 20 = 2,400

TFC = 1,200

TC = 3,600

π = 2,400 - 3,600

= -1,200

② stop producing

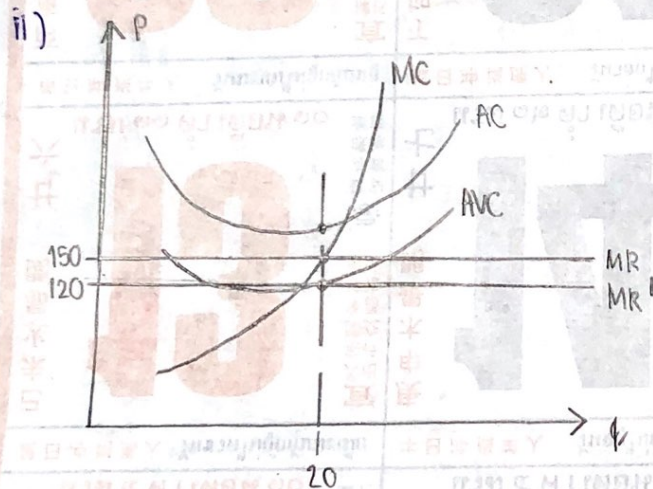
TVC = 120 × 0 = 0

TFC = 1,200

TC = 1,200

π = 0 - 1,200

= -1200



∴ Both choices make the amount of loss
so the firm's decision would
depend on other factors.