

4. June 2008

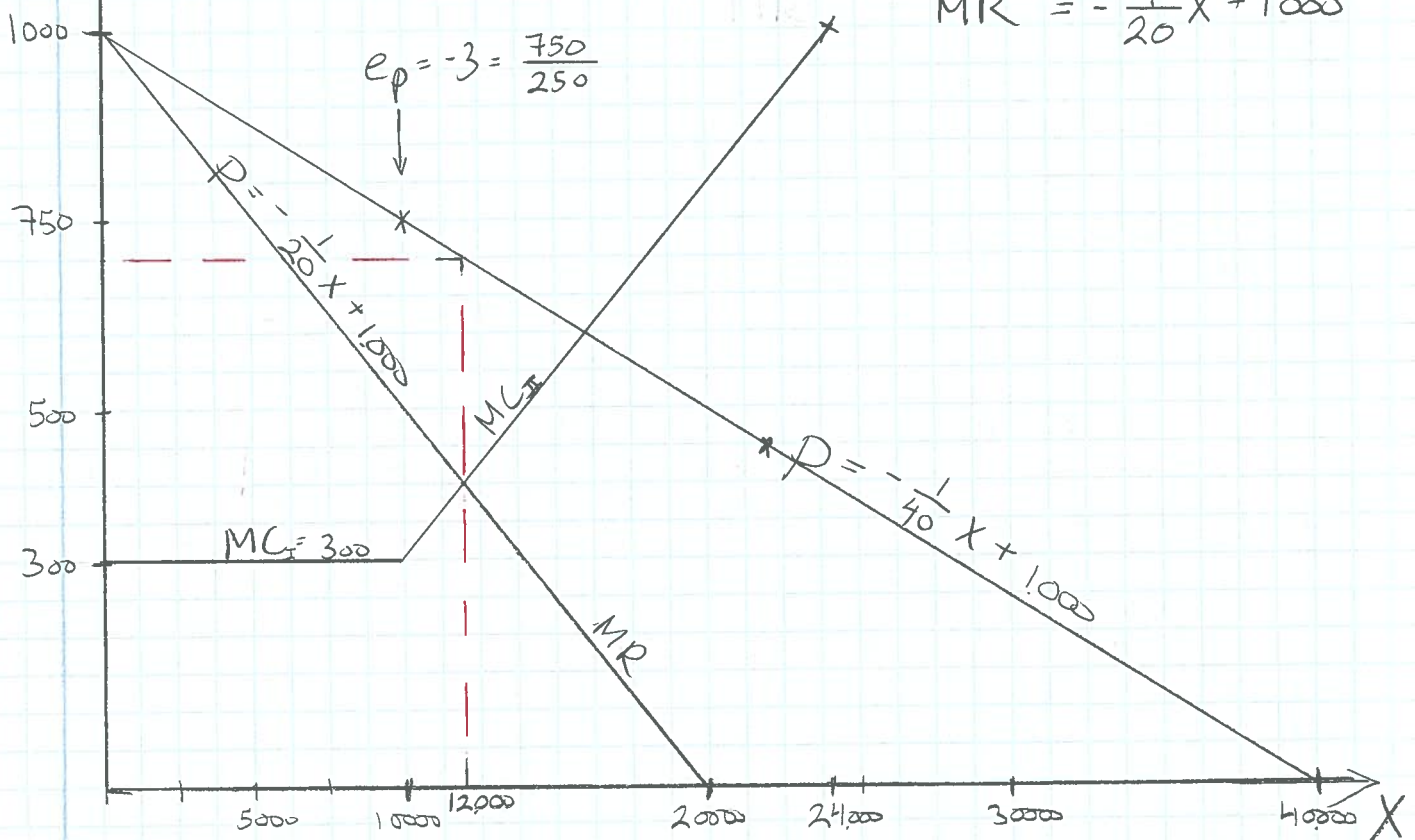
Assignment 1

$$\alpha, \text{ demand} = \frac{250}{10000} = -\frac{1}{40}$$

$$\text{Demand } (p) = -\frac{1}{40}x + 1000$$

$$\text{Turnover} = -\frac{1}{40}x^2 + 1000x$$

$$\text{MR} = -\frac{1}{20}x + 1000$$



$$\alpha, \text{ MC} = \frac{1000 - 300}{24000 - 10000} = \frac{700}{14000} = \frac{1}{20}x$$

$$(10000; 300) \quad 300 = \frac{1}{20} \times 10000 + b$$

$$300 = 500 + b$$

$$-200 = b$$

$$1.1 \quad \text{MC} = p = \frac{1}{20}x - 200$$

$$\text{MR} = \text{MC}$$

$$-\frac{1}{20}x + 1000 = \frac{1}{20}x - 200$$

$$1200 = \frac{2}{20}x$$

$$24000 = 2x$$

$$\underline{\underline{12000 = x}}$$

1.1

1.1

$$p = -\frac{1}{40} \times 12000 + 1000 = \underline{\underline{700}}$$

①

omsætning / Turnover $700 \times 12.000 = 8.400.000$

- $V_0 / VC (300 \times 10.000) (350 \times 2000) = 3.700.000$

1.1 DB / CM

4.700.000

1.2 1.2

$e_p \text{ optimum} = \frac{700}{300} = -2,3\bar{3}$ elastisk.

1.3 1.3 DB / CM

4.700.000

- Activity based costs ABC

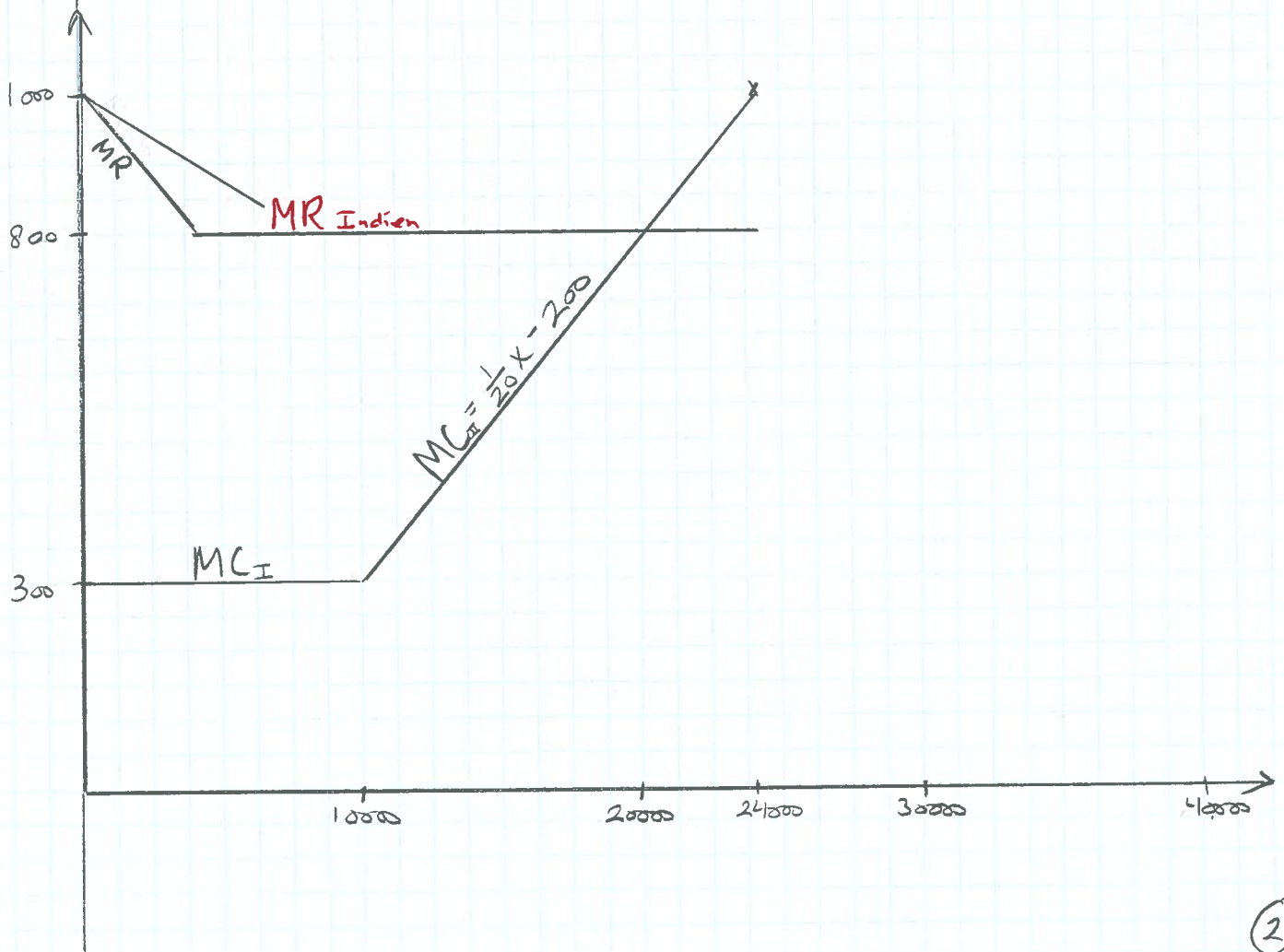
4.800.000

DB / CM

- 100.000

CM is negative, stop production

1.4 1.4



1.5 1.5

$$MR_{\text{Indien}} = MC_{II}$$

$$800 = \frac{1}{20}X - 200$$

$$1000 = \frac{1}{20}X$$

$$\underline{20000 = X} \quad \text{total quantity}$$

$$MR_{DK} = MR_{\text{Indien}}$$

$$-\frac{1}{20}X + 1000 = 800$$

$$200 = \frac{1}{20}X$$

$$\underline{4000 = X} \quad DK$$

$$\underline{\underline{\text{quantity India} = 20000 - 4000 = 16000}}$$

$$\text{Price}_{DK} = -\frac{1}{40} \times 4000 + 1000$$

$$\underline{\underline{\text{price}_{DK} = 900}}$$

$$\text{Omsætning / Turnover India} \quad 800 \times 16000 = 12.800.000$$

$$\text{omsætning / Turnover DK} \quad 900 \times 4000 \quad \underline{3.600.000}$$

$$\text{Omsætning / Turnover Total} \quad 16.400.000$$

$$- VO / VC \quad 300 \times 10000 \quad 3.000.000$$

$$\left(\frac{800+300}{2}\right) \times 10000 \quad \underline{5.500.000}$$

$$DB / CM \quad 7.900.000$$

$$- \text{Faste / Fixed ABC} \quad \underline{4.800.000}$$

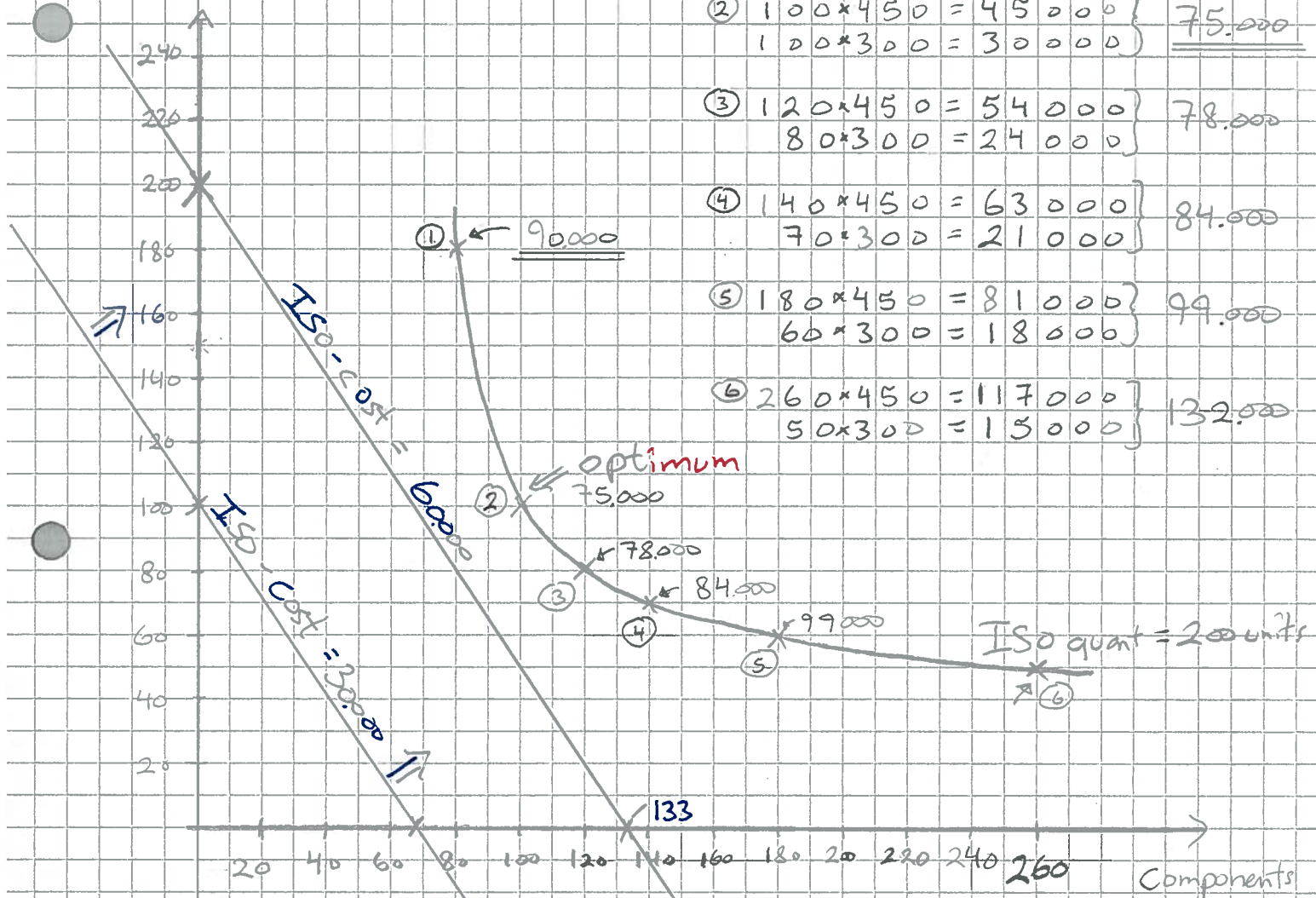
$$\text{Profit / overskud} \quad \underline{\underline{3.100.000}}$$

Fastholde produktionen, continue production

Assignment 2

2.1

Machine hours



Random ISO cost:

$$200 \times 300 = 60.000 \text{ (200 Machine hours)}$$

$$\frac{60.000}{450} = 133,33 \text{ components}$$

Random ISO cost

$$100 \times 300 = 30.000$$

$$\frac{30.000}{450} = 66,66$$

2.2 Solution / Upswing:

100 Components and 100 Machine hours

Total cost 75.000

Assignment 3

"Før" / "Before"

Turnover / omsætning	2500×4000	=	10.000.000
- VC / VO	800×4000	=	3.200.000
	1200×4000	=	<u>4.800.000</u>
CM / DB			2.000.000
- Fixed / Faste omk.	400×4000	=	<u>1.600.000</u>
Profit			<u>400.000</u>

"After" / "Efter"

Turnover / omsætning	2250×8000	18.000.000
- VC / VO	800×2000	1.600.000
	$(300 \times 0,2 = 60)$	
	740×6000	4.440.000
	1200×8000	<u>9.600.000</u>
CM / DB		2.360.000
- Fixed / Faste		<u>1.600.000</u>
Profit		<u>760.000</u>

3.1 Vi skal sælge 8000 stk, vi tjener 360.000 ekstra i DB / Profit

We have to sell 8000 units, we earn 360.000 DK extra in CM.