

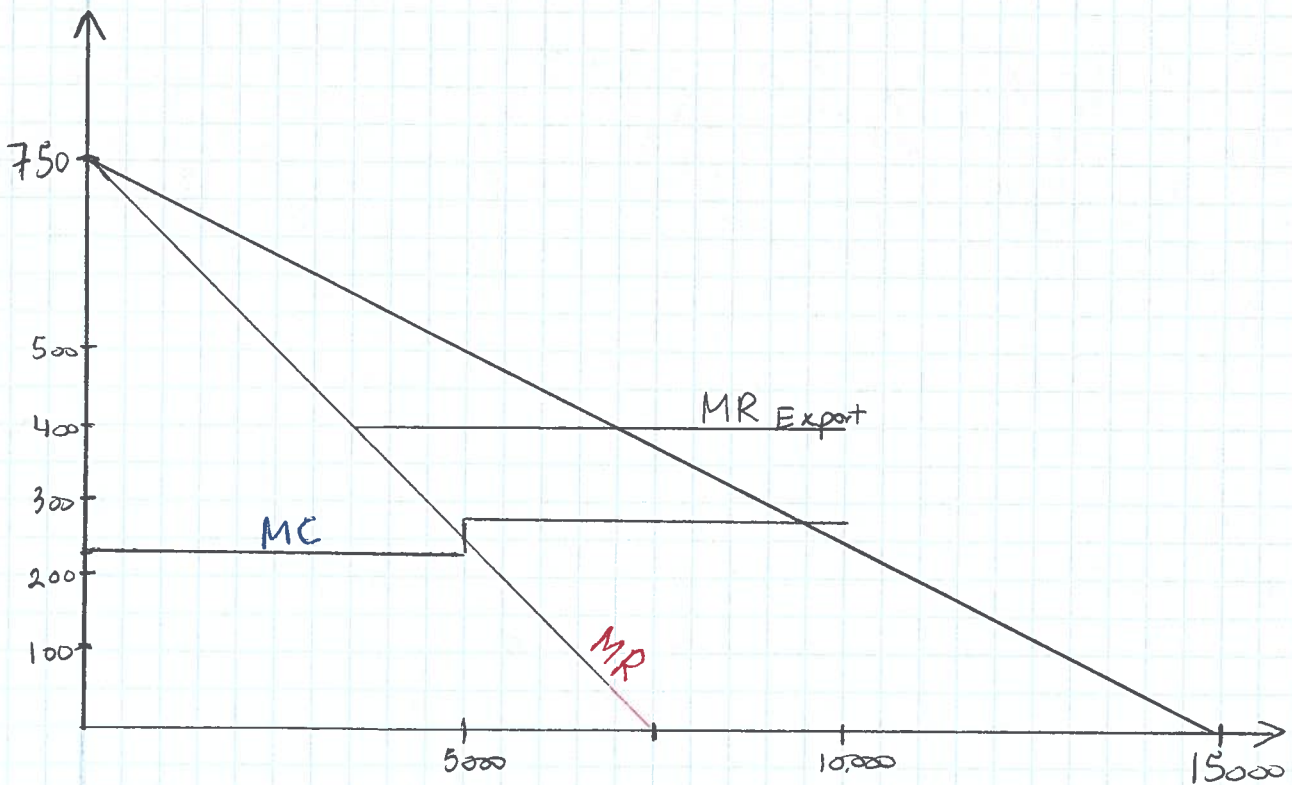
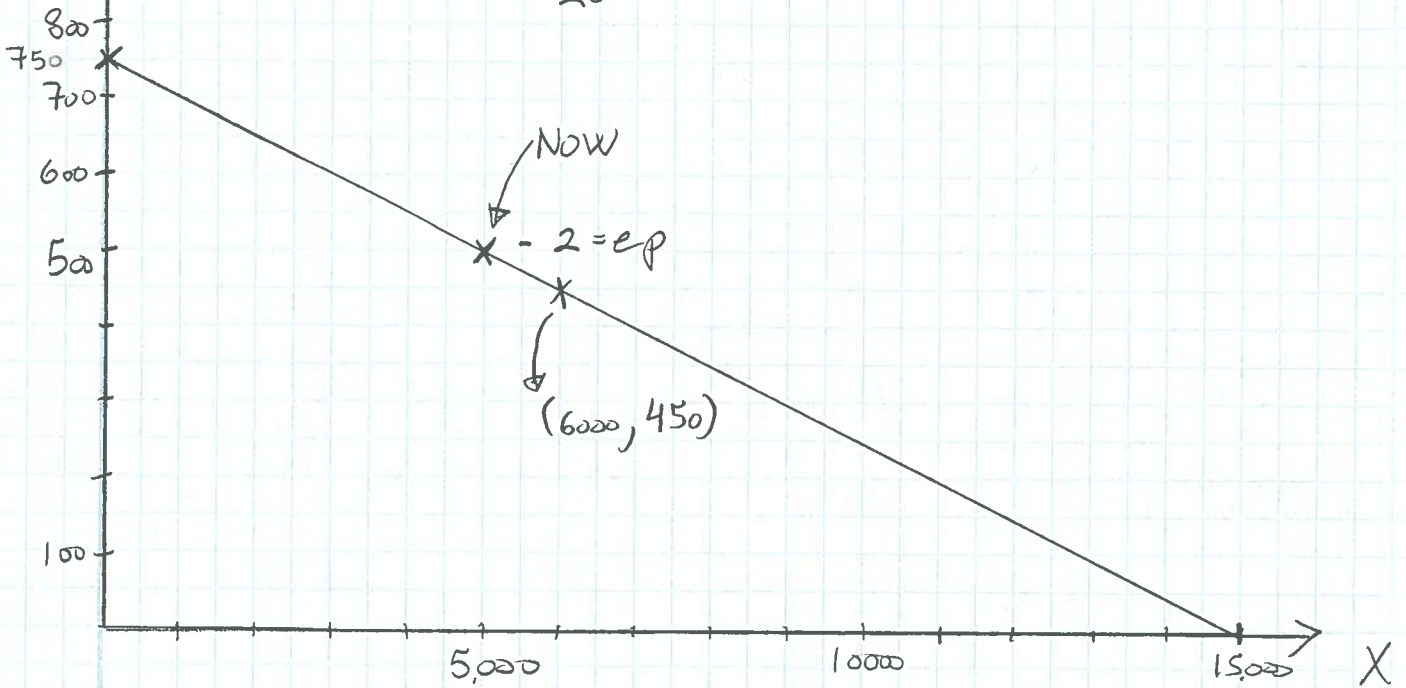
28 Januar 2010

Assignment 1

$$-2 = e_p = \frac{\text{lower } p\text{-axis}}{\text{upper } p\text{-axis}} = \frac{500}{X} \Rightarrow X = 250$$

$$p = \alpha X + b$$

$$p = -\frac{1}{20} X + 750$$



$$p = -\frac{1}{20}X + 750$$

$$pX = -\frac{1}{20}X^2 + 750X$$

$$MR = -\frac{1}{10}X + 750$$

FC

VC 225X

275X

TC

MC $X \leq 5000$ $X > 5000$

MC = 225

MC = 275

$$MR = MC$$

look at the graf, optimum equal to 5000 units

$$p = -\frac{1}{20} \times 5000 + 750$$

$$\underline{p = 500}$$

Turnover	500×5000	= 2,500,000
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-VC	225×5000	<u>1,125,000</u>
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CM/DB		<u><u>1,375,000</u></u>
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1.2

$$MR_{\text{Dn}} = MR_{\text{Eksport}}$$

$$-\frac{1}{10}X + 750 = 400$$

$$350 = \frac{1}{10}X$$

$$\underline{3500 = X} \quad p = -\frac{1}{20} \times 3500 + 750 = \underline{575}$$

1.3

Turnover _{Dn}	575×3500	2,012,500
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Turnover _{Ex}	400×6500	<u>2,600,000</u>
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$$4,612,500$$

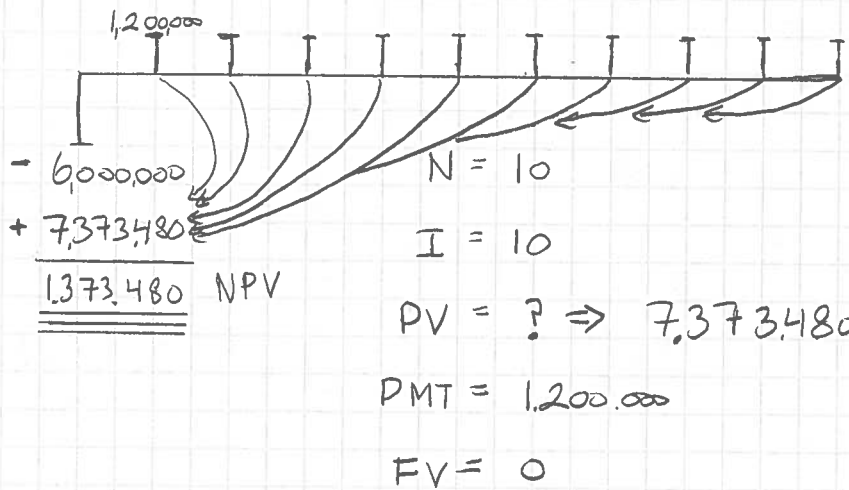
-VC	225×5000	1,125,000
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-VC	275×5000	<u>1,375,000</u>
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CM/DB		<u><u>2,112,500</u></u>
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Assignment 2

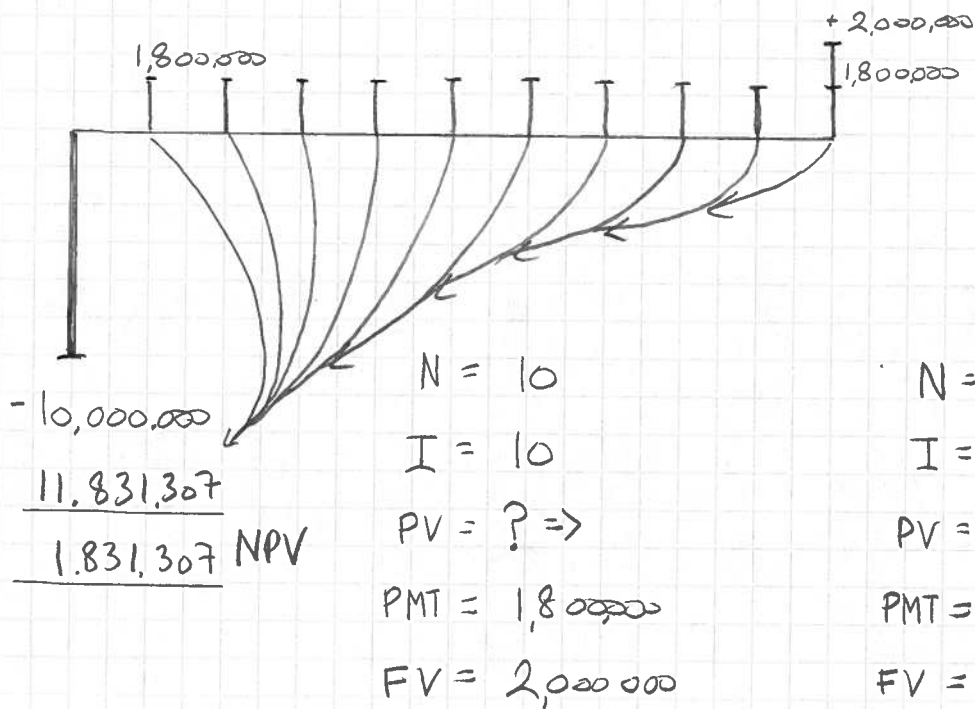
Apparatus A:



10 Years
10% Interest

$N = 10$
 $I = ? \Rightarrow \underline{\underline{15\%}}$
 $PV = 6,000,000$
 $PMT = 1,200,000$
 $FV = 0$

Apparatus B:



$N = 10$
 $I = ? \Rightarrow 13,83$
 $PV = -10,000,000$
 $PMT = 1,800,000$
 $FV = 2,000,000$

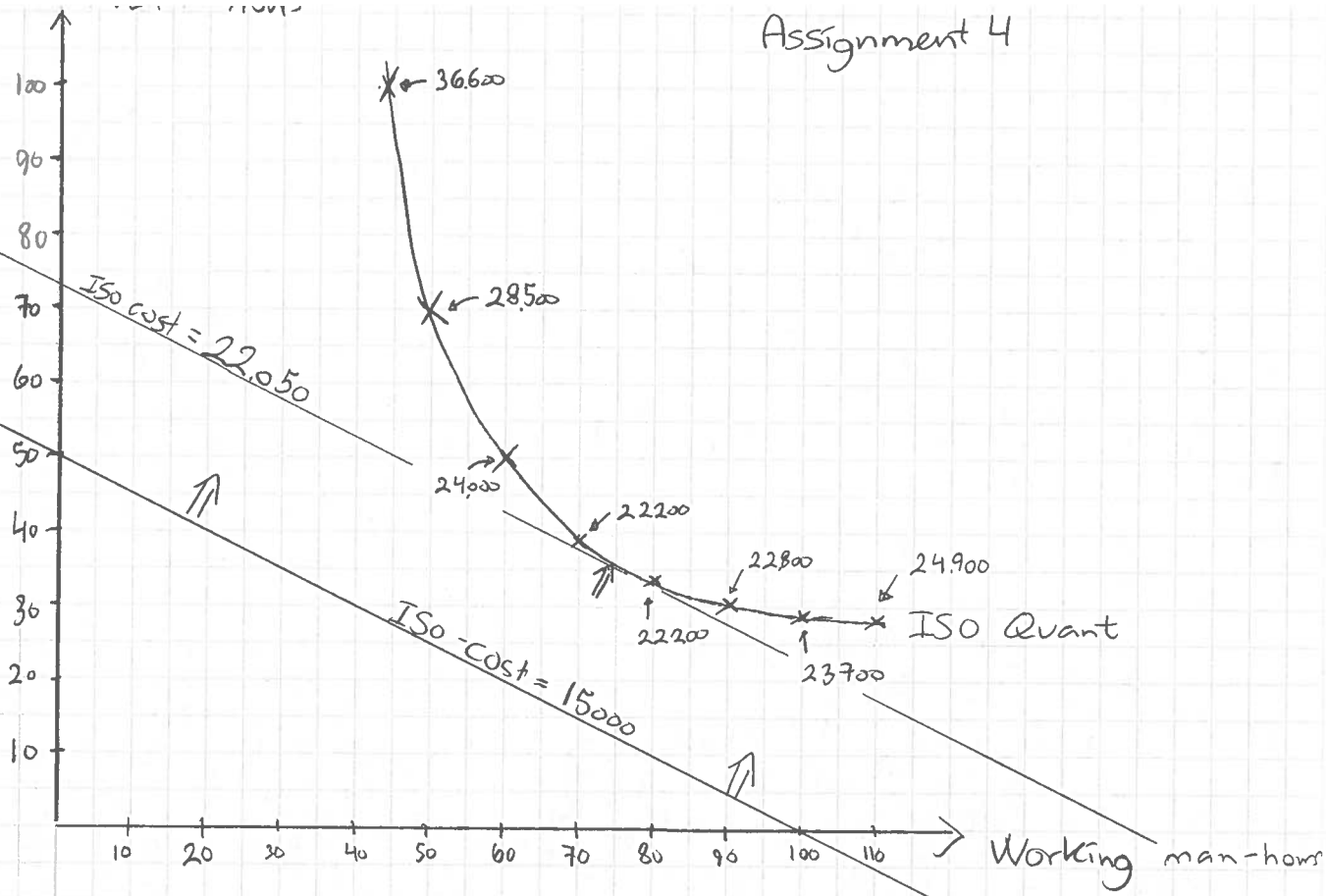
2.2 The difference between the investments

$N = 10$
 $I = ? \Rightarrow 6,25 \Rightarrow \underline{\text{Alternative A is the best}}$
 $PV = -4,000,000$
 $PMT = 400,000$
 $FV = 2,000,000$

3.1 Lowest selling price

VC, production costs	300 per unit
Alteration cost	<u>50 per unit</u>
VC total	<u><u>350</u></u>

Assignment 4



4.2/ optimal combination 80 man hours and 34 machine hours

4.3 total cost 22,200 DKK. or

70 man-hours and 39 machine hours

total cost 22,200 DKK or

75 man-hours and 36 machine hours

total cost 22,050 DKK