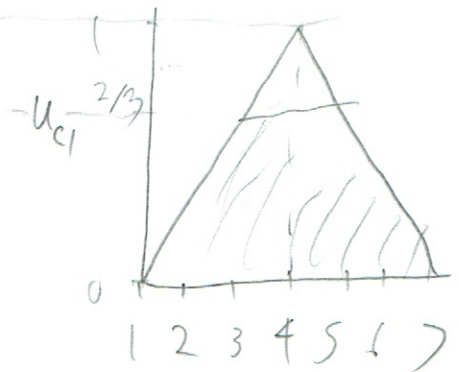
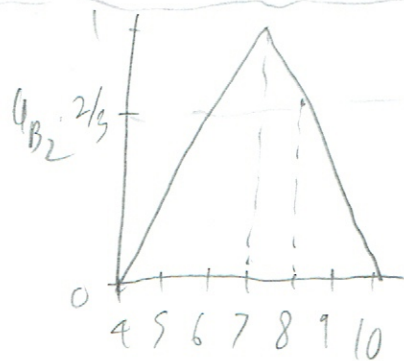
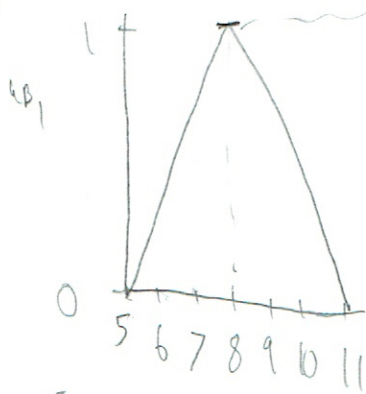
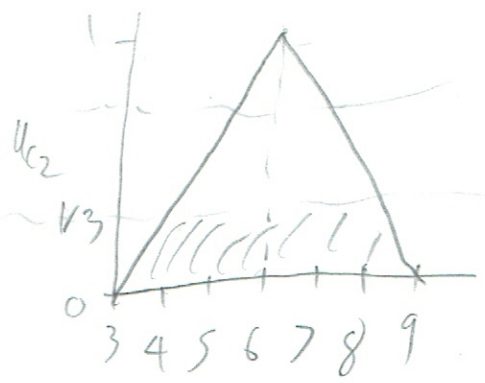
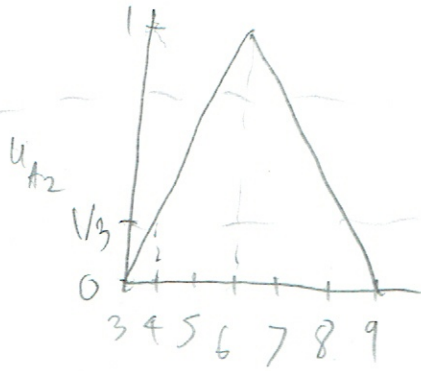
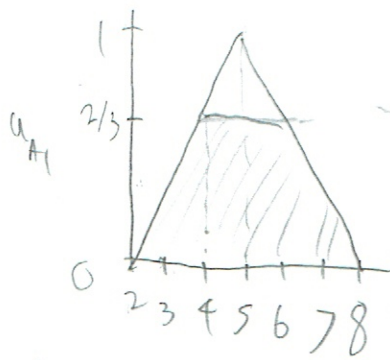


1)



$x_0 \rightarrow 8$

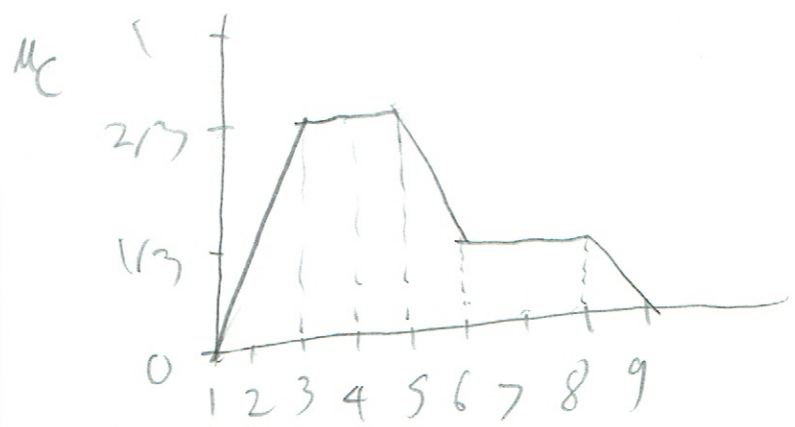


$x_0 \rightarrow 4$

~~20293346~~

⇓

-MOM : 4
 -LOM : 5



2a)

 $\mu_{\min}(u_A, u_B)$

1.7	0.1	0.2	0.2	0.2	0.1
1.8	0.1	0.4	0.4	0.4	0.1
1.9	0.1	0.4	0.6	0.4	0.1
2.0	0.1	0.4	0.8	0.4	0.1
2.1	0.1	0.4	0.6	0.4	0.1
2.2	0.1	0.4	0.4	0.4	0.1
2.3	0.1	0.2	0.2	0.2	0.1
	0.25	0.27	0.3	0.33	0.35

 $1 - \mu_A \rightarrow$ *agreement expression*

1.7	0.8	0.8	0.8	0.8	0.8
1.8	0.6	0.6	0.6	0.6	0.6
1.9	0.4	0.4	0.4	0.4	0.4
2.0	0.2	0.2	0.2	0.2	0.2
2.1	0.4	0.4	0.4	0.4	0.4
2.2	0.6	0.6	0.6	0.6	0.6
2.3	0.8	0.8	0.8	0.8	0.8

A \rightarrow B

3

1.7	0.8	0.8	0.8	0.8	0.8
1.8	0.6	0.6	0.6	0.6	0.6
1.9	0.4	0.4	0.6	0.4	0.4
2.0	0.2	0.4	0.8	0.4	0.2
2.1	0.4	0.4	0.6	0.4	0.4
2.2	0.6	0.6	0.6	0.6	0.6
2.3	0.8	0.8	0.8	0.8	0.8
	0.25	0.27	0.3	0.33	0.35

= R

b) ~~Apply cylindrical extension of T, by this we have max/min of A or R:~~

A' \rightarrow T

0

0.5

0.7

0.95

0.7

0.5

0

x 5

~~I will show the first calculation for reference:~~

$$(A', 1) = \text{Max} [\min(0.8, 0), \min(0.6, 0.5), \min(0.4, 0.7), \min(0.2, 0.95), \min(0.4, 0.7), \min(0.6, 0.5), \min(0.8, 0)]$$

$$= \text{max} [0, 0.5, 0.4, 0.2, 0.4, 0.5, 0]$$

$$= 0.5$$

(4)

$$T = \cancel{0.5} \quad \cancel{0.5} \quad 0.8$$

$$(1,2) = \text{Max} [0, 0.5, 0.4, 0.4, 0.4, 0.5, 0] = 0.5$$

$$(1,3) = \text{Max} [0, 0.5, 0.6, 0.8, 0.6, 0.5, 0] = 0.8$$

$$(1,4) = \text{Max} [0, 0.5, 0.4, 0.4, 0.4, 0.5, 0] = 0.5$$

$$(1,5) = \text{Max} [0, 0.5, 0.4, 0.2, 0.4, 0.5, 0] = 0.5$$

$$T = \left\{ \frac{0.5}{1.25} + \frac{0.5}{0.27} + \frac{0.8}{0.3} + \frac{0.5}{0.33} + \frac{0.5}{0.35} \right\}$$

$$2bii) (1,1) = \text{Max} [0, 0.3, 0.28, 0.19, 0.28, 0.3, 0] = 0.3$$

$$(1,2) = \text{Max} [0, 0.3, 0.28, 0.38, 0.28, 0.3, 0] = 0.38$$

$$(1,3) = \text{Max} [0, 0.3, 0.42, 0.76, 0.42, 0.3, 0] = 0.76$$

$$(1,4) = \text{Max} [0, 0.3, \overset{0.28}{\cancel{0.42}}, 0.38, 0.28, 0.3, 0] = \cancel{0.42} 0.38$$

$$(1,5) = \text{Max} [0, 0.3, \overset{0.28}{\cancel{0.42}}, 0.19, 0.28, 0.3, 0] = \cancel{0.42} 0.3$$

$$T = \left\{ \frac{0.3}{0.25} + \frac{0.38}{0.27} + \frac{0.76}{0.3} + \frac{\overset{0.38}{\cancel{0.42}}}{0.33} + \frac{\overset{0.3}{\cancel{0.42}}}{0.35} \right\}$$