Skinny = (1/60, .75/80, .5/100, .25/120, 0/140)
Medium=(0/100, .5/120, 1/140, .5/160, 0/180)
Fat= (0/140, .25/160, .5/180, .75/200, 1/220)

Problem 1
Answer:
(very=square membership)
i)verySkinny=(1/60, 0.5625/80, .25/100, .0625/120, 0/140)
ii)veryFat=(0/140, .0625/160, .15/180, .5625/200, 1/220)
(moreOrLess=squareroot membership)
iii)moreOrLessSkinny=(1/60, .86/80, .70/100, .5/120, 0/140)
iv)moreOrLessMedium=(0/100, .70/100, 1/140, .70/160, 0/180)
v)moreOrLessFat=(0/140, .5/160, .70/180, .86/200, 1/220)
(indeed: increase value above 0.5)
(indeed: Decrease value below 0.5)
vi)IndeedSkinny=(1/60, .875/80, .5/100, .125/120, 0/140)
vii)IndeedMedium=(0/100, .5/120, 1/140, .5/16, 0/180)
viii)indeedFat=(0/140, .125/160, .5/180, .875/200, 1/220)

Problem 2
To find NOT subtract one from the squared membership
i)NotSkinny=(0/60, .4375/80, .75/100, .9375/120, 1/140)
ii)NotMedium=(1/00, .75/100, 0/140, .75/120, 1/180)
iii)NotFat=(1/140, .9375/160, .85/180, .4375/200, 0/220)
iv)Medium || Fat= max(medium, fat)=(0/100, .5/120, 1/140, .75/200, 1/180)
v)Skinny || Medium=max(skinny, medium)=(1/60, .75/80, .5/100, .5/160, 0/140)
vi)Skinny && Medium=min(skinny, medium)=(0/100, .5/120, .5/100, .25/120, 0/180)
vii)Medium && Fat=min(medium, fat)=(0/140, .25/160, .5/180, .5/10, 0/180)
viii)Not Very Skinny && NOT very fat=min(notVerySkinny,notVeryFat)
First find Very Sinny:
verySkinny=(1/60, 0.5625/80, .25/100, .0625/120, 0/140)
veryFat=(0/140, .0625/160, .15/180, .5625/200, 1/220)
Then find Not Very Skinny:
!verySkinny=(1-verySkinny)
notVerySkinny=(0/60, .44/80, .75/100, .94/120, 1/140)
notVeryFat=(1/140, .38/160, .85/180, .44/200, 0/220)
Finally Find notVerySkinny && notVeryFat = min(!verySkinny, !veryFat)=(9/60, .38/160, .75/100, .44/200, 0/220)
Problem 3
A=(0, .4, 1, .4, 0)
B=(0, .5, 1, .5, 0)

M=|min(A,b)|

M=| 0  0  0  0  0 |
   | 0  .4  4  .4  0 |
   | 0  .5  1  .5  0 |
   | 0  .4  .4  .4  0 |
   | 0  0  0  0  0 |

A'=| 0  .4  0  0  0 |

B'=| 0  .4  .4  .4  0 |