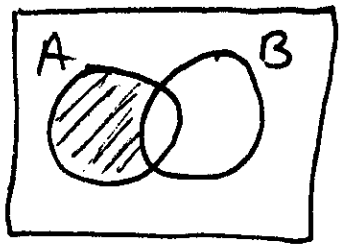
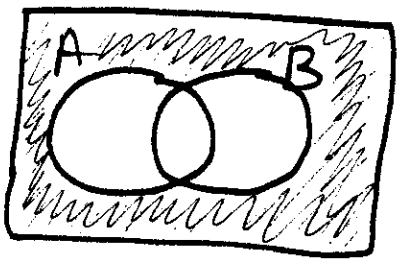
Page 13 #41 - 55

#41



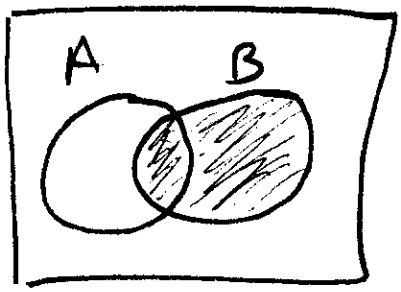
$A \cap \overline{B}$

#42



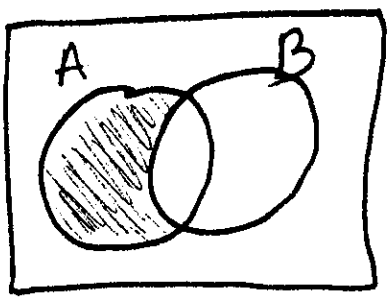
$\overline{A} - B$

#43



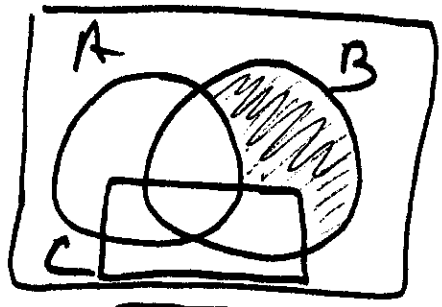
$B \cup (B - A)$

#44



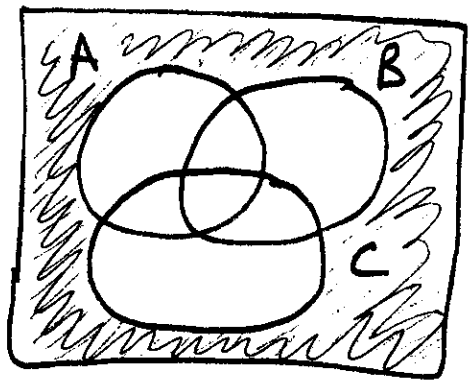
$(A \cup B) - B$

#45



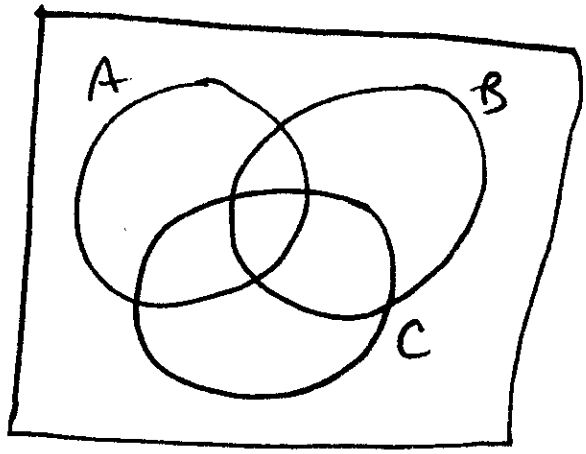
$B \cap \overline{(C \cup A)}$

#46



$(\overline{A} \cup B) \cap (\overline{C} - A)$

#47

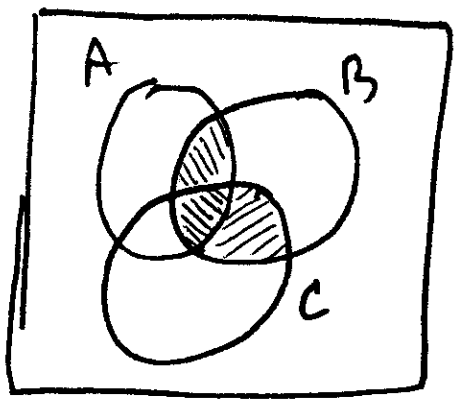


$((C \cap A) - \overline{(B - A)}) \cap C$

$= \emptyset$

page 13

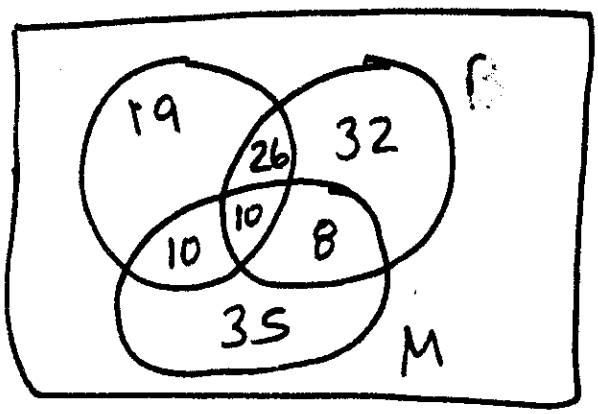
#48



$(B-\bar{C}) \cup ((B-\bar{A}) \cap (C \cup B))$

#49 The intersection of Great Taste & Less Filling

50 − 5



#50 10

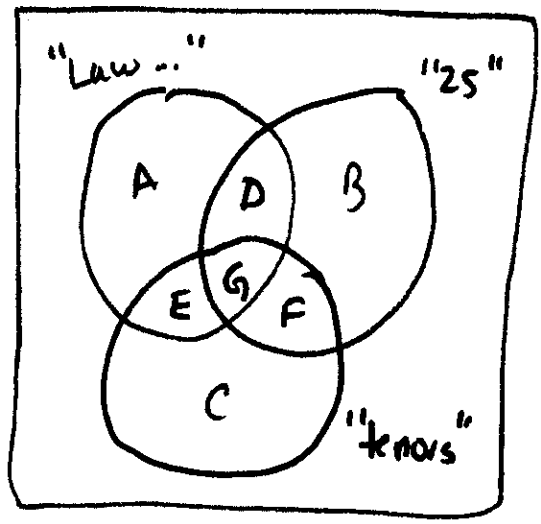
51 32

52 140 − 35 = 105

53 19 + 10 + 35 = 64

54 191 − 140 = 51

#55



$A+B+C+D+E+F+G = 151-26$

$= 125$

$A + D + E + G = 68$

$B + D + F + G = 61$

$C + E + F + G = 52$

$E + G = 25$

$D + G = 16$

$F + G = 19$

7 equations - 7 unknowns

Solve it!

$A = 31$ $D = 12$

$B = 30$ $E = 21$

$C = 12$ $F = 15$

and $\boxed{G = 4}$

according to TI-83