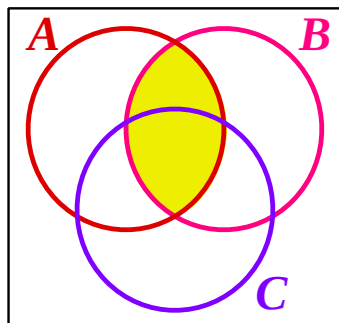


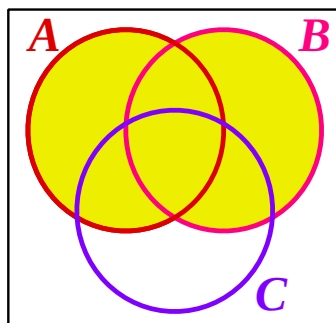
1.8 Answers

1.8.1 Solutions to Exercise 1.7

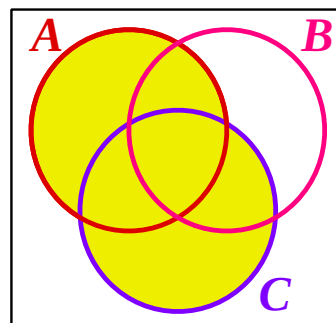
Answer 1



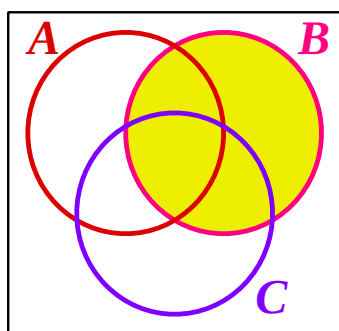
Shade : $A \cap B$



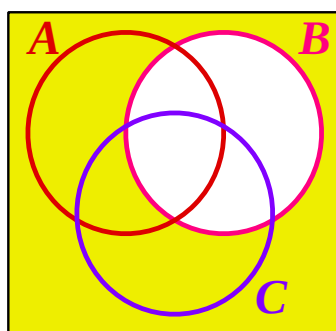
Shade : $A \cup B$



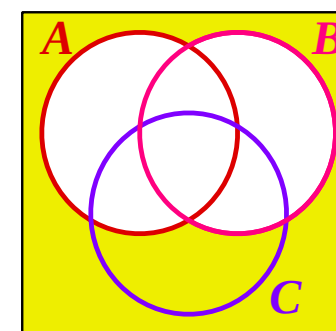
Shade : $A \cup C$



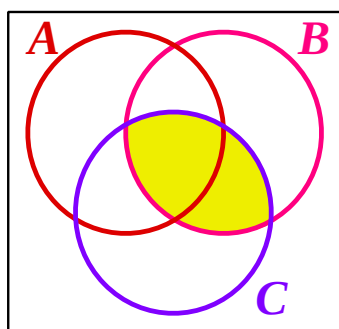
Shade : B



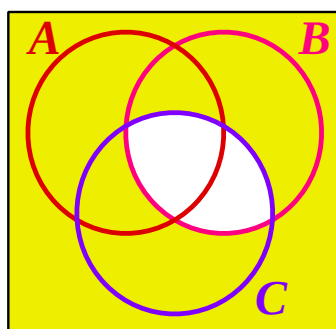
Shade : B'



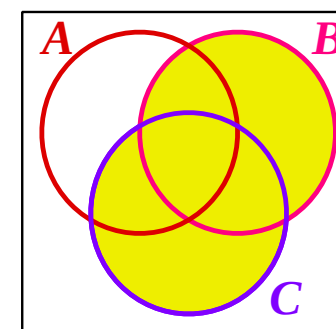
Shade : $(A \cup B)'$



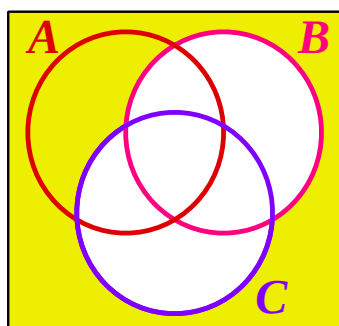
Shade : $B \cap C$



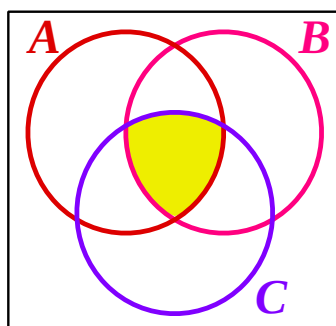
Shade : $(B \cap C)'$



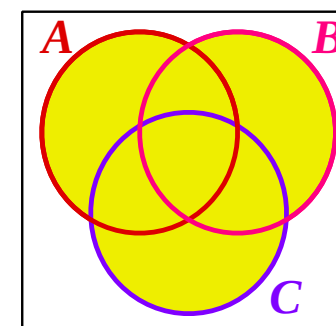
Shade : $B \cup C$



Shade : $(B \cup C)'$



Shade : $A \cap B \cap C$



Shade : $A \cup B \cup C$

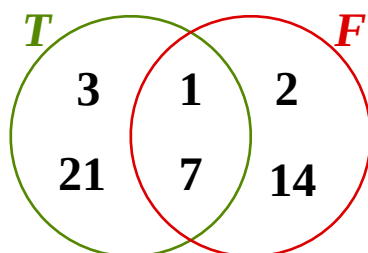
[12 marks]

Answer 2

(i) $T = \{1, 3, 7, 21\}$ $F = \{1, 2, 7, 14\}$

[1, 1 marks]

(ii)



[2 marks]

(iii) $T \cap F = \{1, 7\}$

[2 marks]

(iv) $T \cup F = \{1, 2, 3, 7, 14, 21\}$

[2 marks]

Answer 3

(i) $A \cap B = \{\square, \times\}$

[2 marks]

(ii) $A \cup B = \{\Delta, \times, O, \square, \diamond, \pi\}$

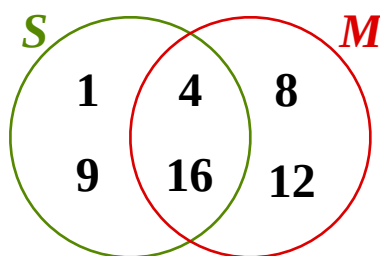
[2 marks]

Answer 4

(i) $S = \{1, 4, 9, 16\}$ $M = \{4, 8, 12, 16\}$

[1, 1 marks]

(ii)



[2 marks]

(iii) $S \cap M = \{4, 16\}$

[2 marks]

(iv) $S \cup M = \{1, 4, 8, 9, 12, 16\}$

[2 marks]