

1. Let  $A = \{a, b, 1, 2\}$  and  $B = \{1, 2, 3\}$ . Write each of the following sets by listing the elements inside curly brackets.

(a)  $A \cap B$

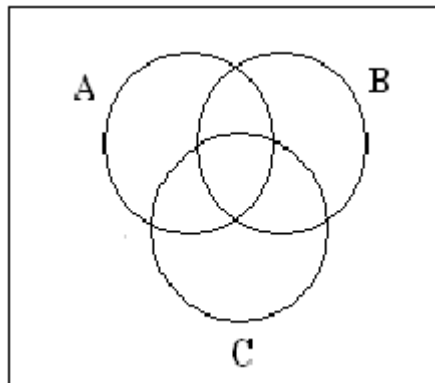
(b)  $A \cup B$

(c)  $A \Delta B$

(d)  $A \times B$

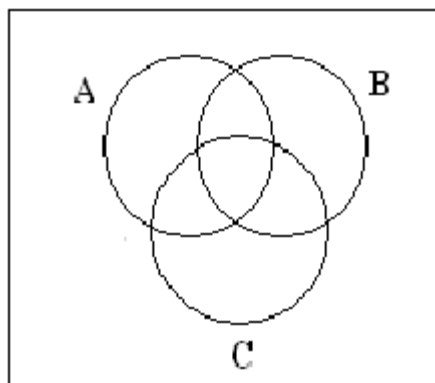
2. Shade as appropriate on the given Venn Diagram. (You do not need to show any steps, but if you do, make sure your final answer is clearly indicated.)

(a)



$$A - (B \cap C)$$

(b)



$$A \cup (B \Delta C)$$

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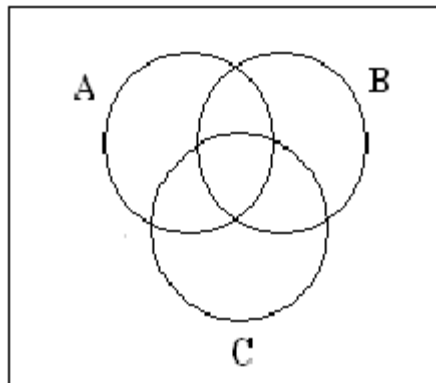
(b)  $A \cup B$

(c)  $A \Delta B$

(d)  $A \times B$

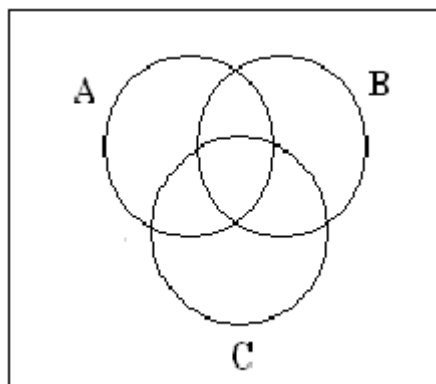
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(a)



$A - (B \cup C)$

(b)



$A \cap (B \Delta C)$