1:

A = {2, 4, 6}
B = {4, 5, 6}
A U B = {2, 4, 5, 6}
(A U B)^c = {1, 3}

$$A^{c} = {1, 3, 5}$$

 $B^{c} = {1, 2, 3}$
 $A^{c} \cap B^{c} = {1, 3}$
A \cap B = {4, 6}
(A \cap B)^c = {1, 2, 3, 5}
 $A^{c} \cup B^{c} = {1, 2, 3, 5}$

2:

Using the above sets A and B as examples:

(a)

$$(A^{c} \cap B) = \{5\}$$

$$(A^{c} \cap B^{c}) = \{1, 3\}$$

$$(A^{c} \cap B) \cup (A^{c} \cap B^{c}) = \{1, 3, 5\}$$

$$(A \cap B^{c}) = \{2\}$$

$$(A^{c} \cap B^{c}) = \{1, 3\}$$

$$(A \cap B^{c}) \cup (A^{c} \cap B^{c}) = \{1, 2, 3\}$$

(b)
$$(A \cap B)^{c} = \{1, 2, 3, 5\}$$

$$(A^{c} \cap B) = \{5\}$$

$$(A^{c} \cap B^{c}) = \{1, 3\}$$

$$(A \cap B^{c}) = \{2\}$$

$$(A^{c} \cap B) \cup (A^{c} \cap B^{c}) \cup (A \cap B^{c}) = \{1, 2, 3, 5\}$$

(c)
$$A = \{1, 3, 5\}$$

$$B = \{1, 2, 3\}$$

$$A \cap B = \{1, 3\}$$

$$(A \cap B)^{c} = \{2, 4, 5, 6\}$$

$$A^{c} = \{2, 4, 6\}$$

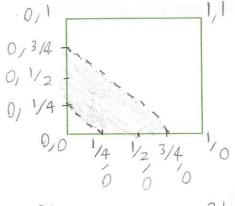
$$B^{c} = \{4, 5, 6\}$$

$$(A \cap B^{c}) = \{5\}$$

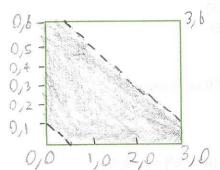
$$(A^{c} \cap B) = \{2\}$$

$$(A^{c} \cap B^{c}) = \{4, 6\}$$

$$(A^{c} \cap B) \cup (A^{c} \cap B^{c}) \cup (A \cap B^{c}) = \{2, 4, 5, 6\}$$



4:



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