

Exercício

1- $C = \{1, 3, 6\}$, $A = \{2, 4, 18\}$, $B = \{3, 5, 8\}$

$$C \times A \times B = \{(1, 2, 3), (1, 4, 5), (1, 18, 8), (3, 2, 3), (3, 4, 5), (3, 18, 8), (6, 2, 3), (6, 4, 5), (6, 18, 8), (2, 1, 3), (2, 3, 5), (2, 6, 8), (4, 1, 3), (4, 3, 5), (4, 6, 8), (18, 1, 3), (18, 3, 5), (18, 6, 8), (3, 1, 2), (3, 3, 4), (3, 6, 18), (5, 1, 2), (5, 3, 4), (5, 6, 18), (8, 1, 2), (8, 3, 4), (8, 6, 18)\}$$

$$C \times A \times B = 3 \times 3 \times 3 = 27$$

2- $A = \{11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35\}$ $|A| = 13$

$B = \{\text{São Luís, Teresina, Fortaleza, Natal, João Pessoa, Recife, Maceió, Aracaju, Salvador}\}$
 $|B| = 9$

$|C| = 0$

$D = \{1, 4, 9, 16, 25, 36, 49, 64, 81, 100\}$ $|D| = 10$

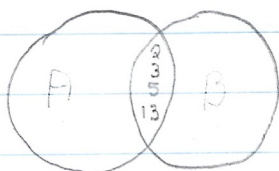
$E = \{I, IV, IX, XL, LI, LV, LIII\}$ $|E| = 7$

$F = \{2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97\}$
 $|F| = 25$

3. $A = \{0, 1, 2, 3, 5, 8, 13, 21, 34, 55\}$ $B = \{2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37\}$

$C = \{2, 3, 5, 13\}$ $U = \{x | x \text{ é primo entre } 2 \text{ e } 40 \text{ ou } x \text{ pertence à sequência de Fibonacci até o nº } 150\}$

a. $A \cap B = \{2, 3, 5, 13\}$



b. $A \cup B = \{0, 1, 2, 3, 5, 7, 8, 11, 13, 17, 19, 21, 23, 29, 31, 33, 34, 55\}$

