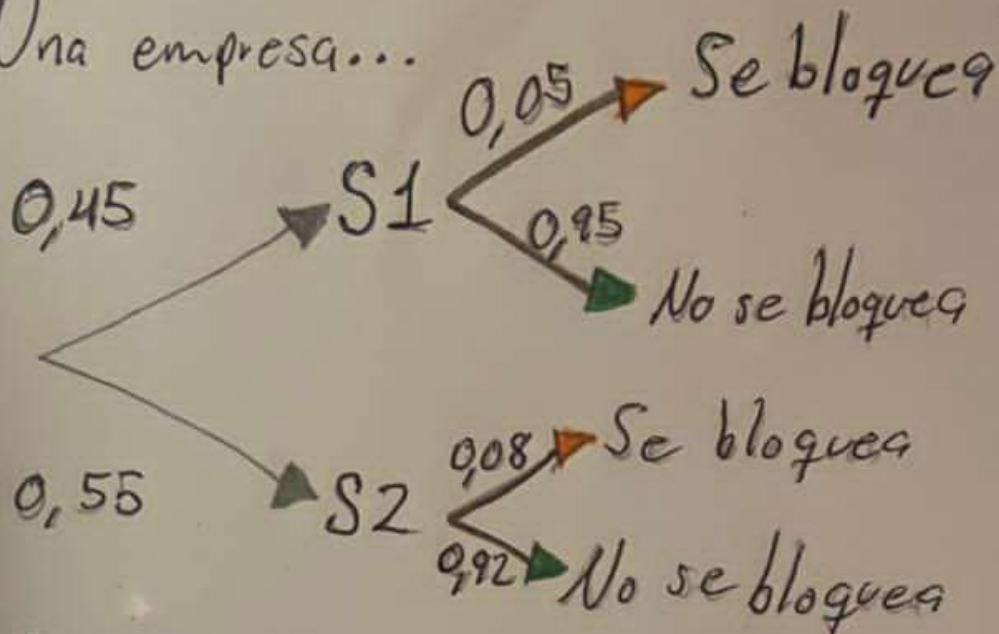
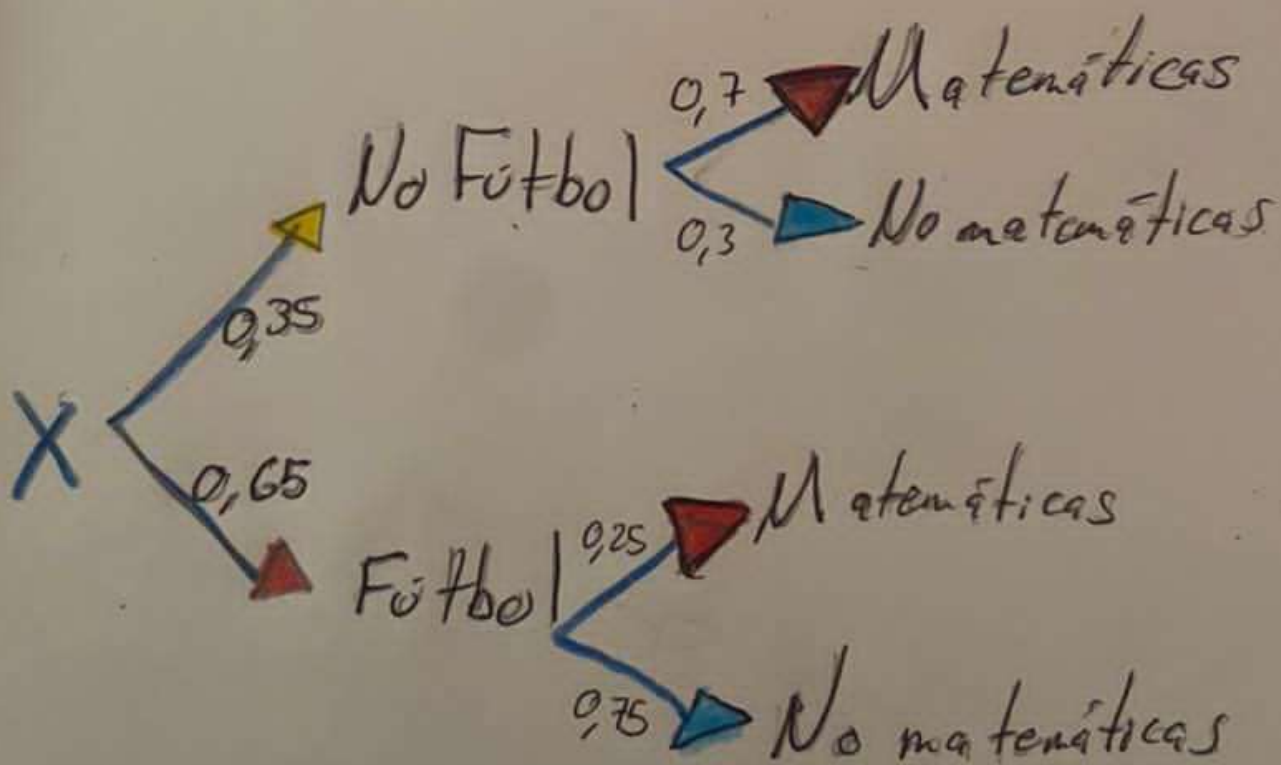


Examen.

1- Una empresa...



2- El 35% de los estudiantes...



Realice el diagrama de cada conjunto solicitado:

Dado los conjuntos U, A, B, C , determine los conjuntos que se solicitan:

- $U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

- $A = \{2, 4, 6, 8, 10\}$

- $B = \{1, 2, 3, 4, 5\}$

- $C = \{1, 3, 5, 7, 9\}$

Determinar

- $A \cup B$

- $B \cap A$

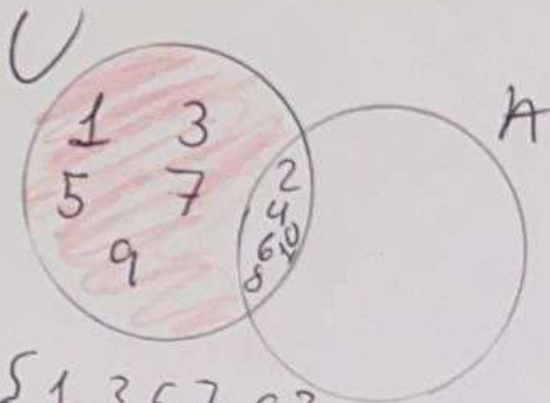
- $B - A$

- $U - A$

Diferencia de conjuntos

$$U = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$$

$$A = \{2, 4, 6, 8, 10\}$$



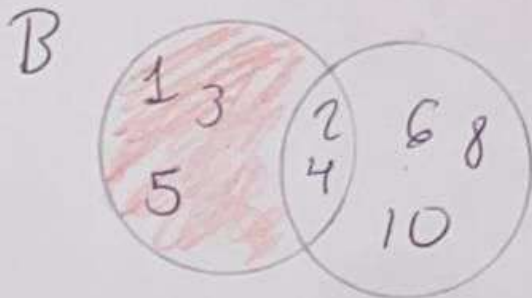
$$U - A = \{1, 3, 5, 7, 9\}$$

$$A - U = \{ \} = \emptyset$$

Diferencia de conjuntos \rightarrow

$$B = \{1, 2, 3, 4, 5\}$$

$$A = \{2, 4, 6, 8, 10\}$$

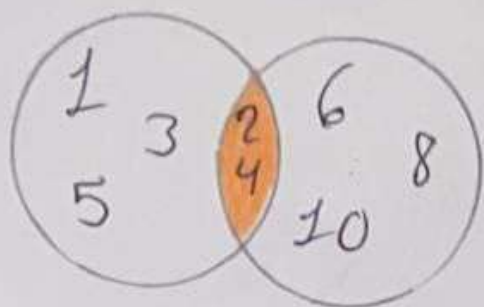


$$B - A = \{1, 3, 5\}$$

Intersección de conjuntos.

$$B = \{1, 2, 3, 4, 5\}$$

$$A = \{2, 4, 6, 8, 10\}$$

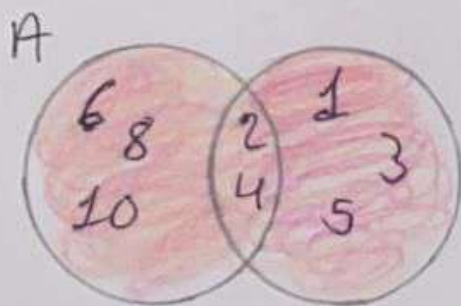


$$B \cap A = \{2, 4\}$$

Unión de conjuntos.

$$A = \{2, 4, 6, 8, 10\}$$

$$B = \{1, 2, 3, 4, 5\}$$



$$A \cup B = \{1, 2, 3, 4, 5, 6, 8, 10\}$$

Resuelva el sig. ejercicio de T. de Bayes 20%

* Eventos

Helado: a un alumno le guste el helado

Tortas a un alumno le guste la tarte.

* Datos

$$P(h) = 0,6$$

$$P(t) = 0,36$$

$$P(t/h) = 0,4$$

* Calcular $P(h/t)$

[Teorema de Bayes]

Formula

$$P(h/t) = \frac{P(h) \cdot P(t/h)}{P(t)}$$

$$P(h/t) = \frac{0,6 \cdot 0,4}{0,36} = \frac{0,24}{0,36} = \frac{24}{36} = \frac{2}{3} = 0,6667 = 66,67\%$$