

# Geometría y trigonometría

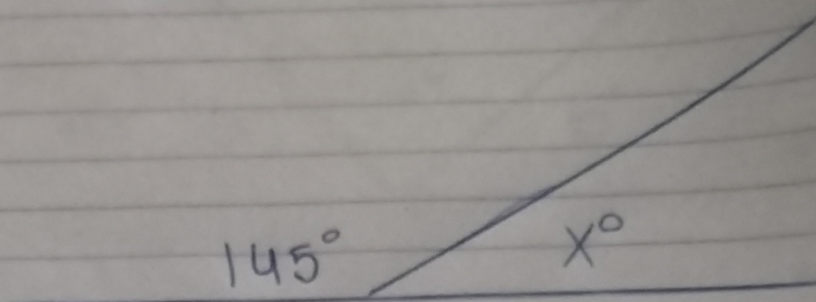
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Segundo cuatrimestre

Resuelve los siguientes problemas.

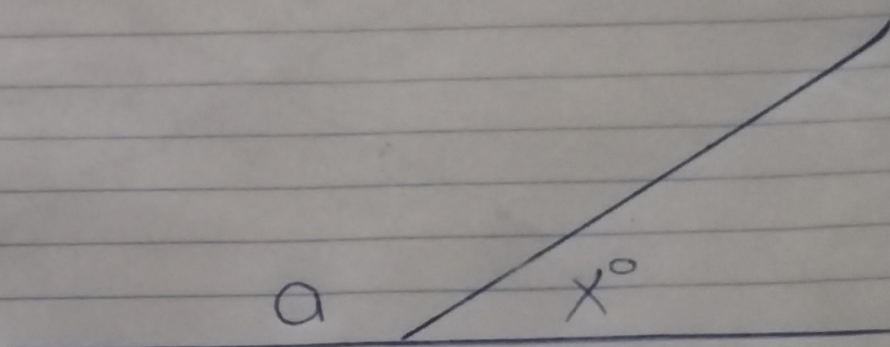
1)  $x = ?$

- a)  $145^\circ$
- b)  $90^\circ$
- c)  $72,50$
- d)  $45^\circ$
- e)  $35^\circ$



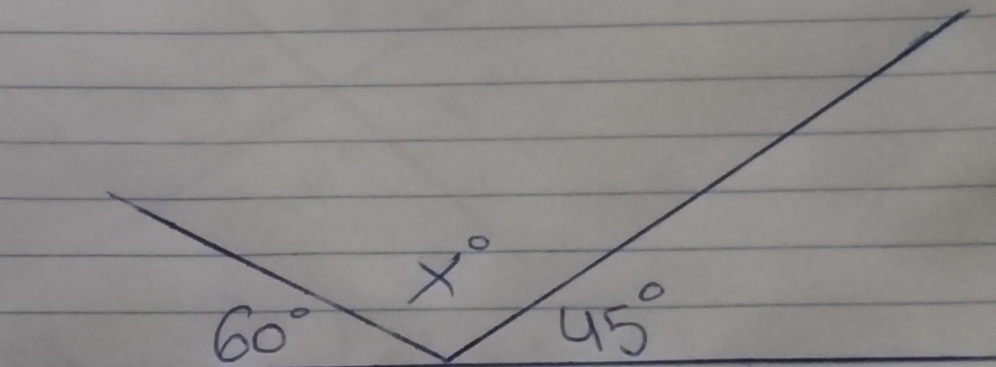
2)  $x = ?$

- a)  $a$
- b)  $90^\circ$
- c)  $90 - a$
- d)  $180 - a$
- e)  $180 + a$



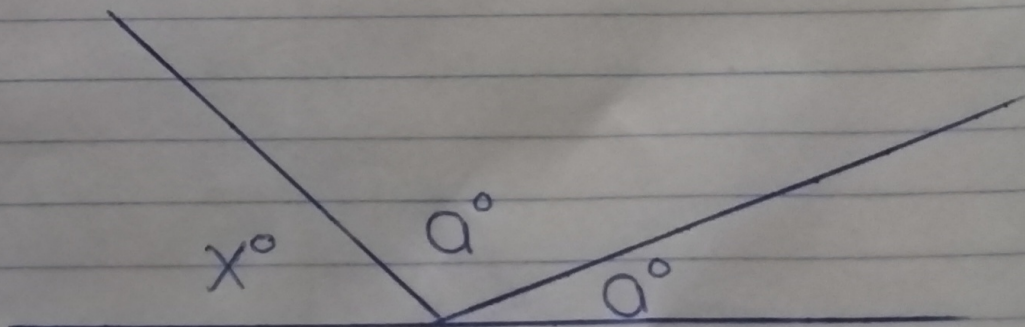
3)  $x = ?$

- a)  $30^\circ$
- b)  $45^\circ$
- c)  $75^\circ$
- d)  $90^\circ$
- e)  $105^\circ$



4)  $x = ?$

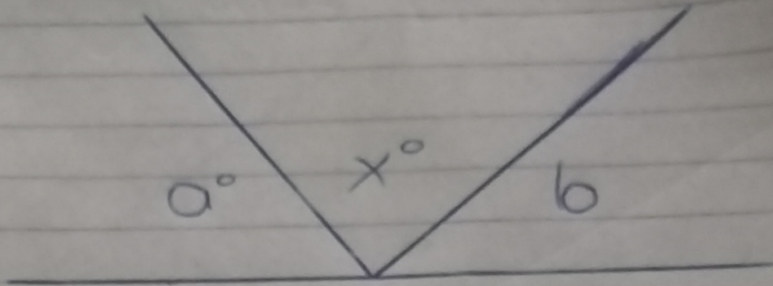
- a)  $180 - a - b$
- b)  $2a$
- c)  $180 - 2a$
- d)  $180 - a$
- e)  $180 + 2a$



LOVE yourself

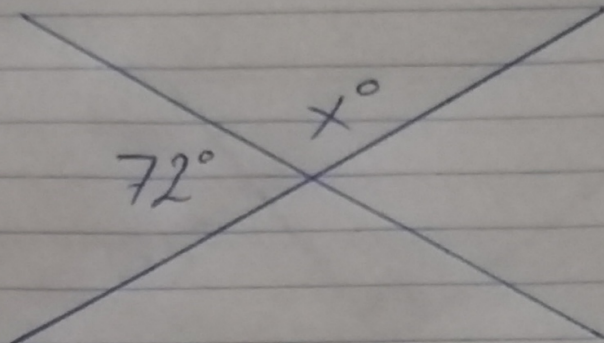
5)  $x = ?$

- a)  $90^\circ$
- b)  $180 - a - b$
- c)  $a + b - 180$
- d)  $-a - b$
- e)  $a + b$



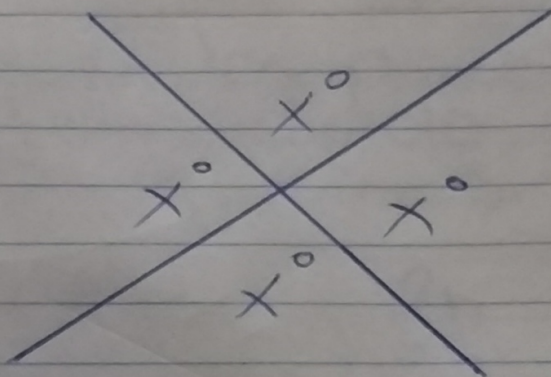
6)  $x = ?$

- a)  $18^\circ$
- b)  $72^\circ$
- c)  $90^\circ$
- d)  $108^\circ$
- e)  $128^\circ$



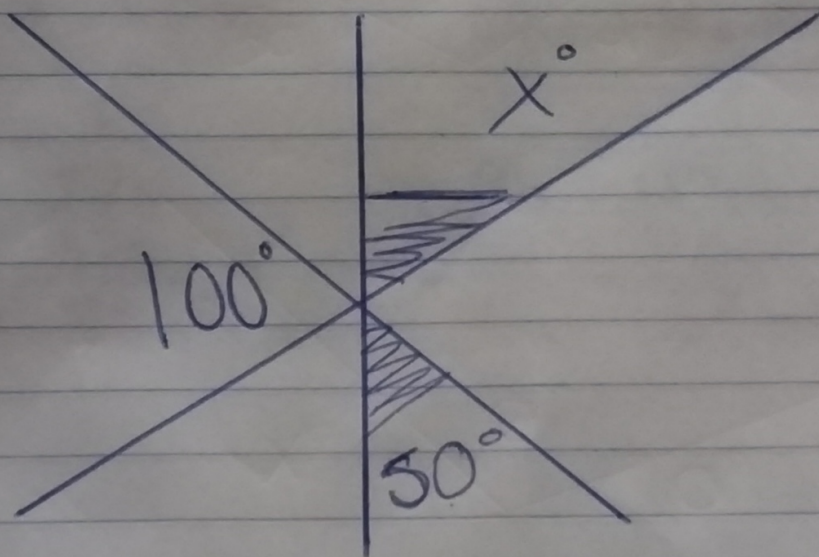
7)  $x = ?$

- a)  $45^\circ$
- b)  $60^\circ$
- c)  $90^\circ$
- d)  $180^\circ$
- e)  $360^\circ$



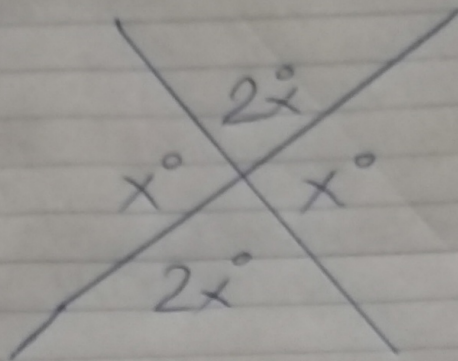
8)  $x = ?$

- a)  $30^\circ$
- b)  $40^\circ$
- d)  $60^\circ$
- e)  $100^\circ$
- c)  $50^\circ$



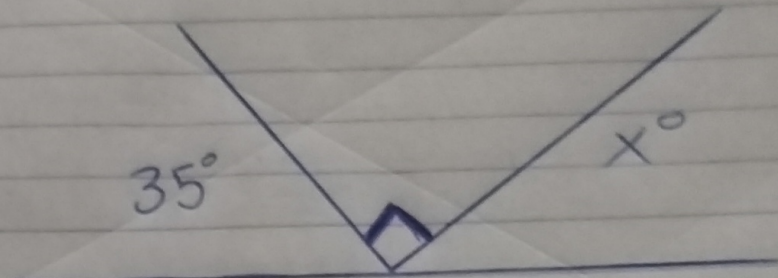
a)  $x = ?$

- a)  $30^\circ$
- b)  $60^\circ$
- c)  $90^\circ$
- d)  $120^\circ$
- e)  $150^\circ$



10)  $x = ?$

- a)  $35^\circ$
- b)  $45^\circ$
- c)  $55^\circ$
- d)  $65^\circ$
- e)  $90^\circ$



INSTRUCCIONES: En los primeros Cuadros anota la suma directa, en el siguiente con el resultado ya simplificado.

$$\begin{array}{r} 5\text{h } 45\text{min } 56\text{s.} \\ + 4\text{h } 38\text{min } 42\text{s.} \\ \hline 10\text{h } 24\text{min } 38\text{s.} \end{array}$$

$$\begin{array}{r} 2\text{h } 49\text{min } 53\text{s.} \\ + 3\text{h } 56\text{min } 26\text{s.} \\ \hline 6\text{h } 46\text{min } 19\text{s.} \end{array}$$

$$\begin{array}{r} + 4\text{h } 42\text{min } 27\text{s.} \\ 3\text{h } 13\text{min } 37\text{s.} \\ \hline 7\text{h } 56\text{min } 4\text{s.} \end{array}$$

$$\begin{array}{r} + 2\text{h } 47\text{min } 22\text{s.} \\ 1\text{h } 40\text{min } 18\text{s.} \\ \hline 4\text{h } 27\text{min } 40\text{s.} \end{array}$$

LOVE yourself

$$\begin{array}{r}
 6h \quad 24min \quad 54s \\
 + 7h \quad 42min \quad 36s \\
 \hline
 2h \quad 15min \quad 44s \\
 16h \quad 23min \quad 14s
 \end{array}$$

$$\begin{array}{r}
 3h \quad 14min \quad 54s \\
 + 4h \quad 22min \quad 35s \\
 \hline
 6h \quad 15min \quad 28s \\
 14h \quad 52min \quad 57s
 \end{array}$$

Ejercicios de conversión de grados a radianes y viceversa.

1. Transformo los siguientes ángulos a radianes:

a)  $0^\circ = 0^\circ \text{ Rad.}$

b)  $30^\circ = \frac{30\pi}{180} = \frac{3\pi}{18} = \frac{\pi}{6} \text{ Rad}$

c)  $45^\circ = \frac{45\pi}{180} = \frac{9\pi}{36} = \frac{\pi}{4} \text{ Rad}$

d)  $60^\circ = \frac{60\pi}{180} = \frac{8\pi}{18} = \frac{\pi}{3} \text{ rad.}$

e)  $90^\circ = \frac{90\pi}{180} = \frac{9\pi}{18} = \frac{\pi}{2}$

j)  $210^\circ = \frac{210\pi}{180}$

f)  $120^\circ = \frac{120\pi}{180}$

g)  $135^\circ = \frac{135\pi}{180}$

h)  $150^\circ = \frac{150\pi}{180}$

i)  $20^\circ = \frac{20\pi}{180}$