

Resuelve los siguientes problemas.

① $x = ?$

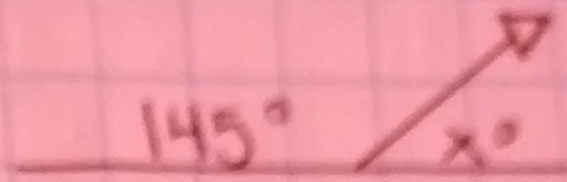
a) 145°

c) 72.5°

b) 90

d) 45°

e) 35°



② $x = ?$

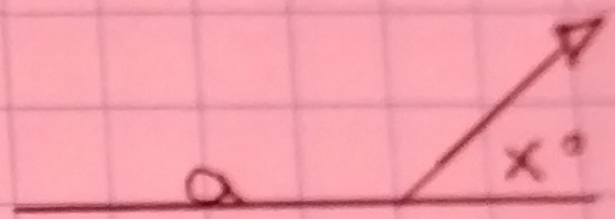
a) a

c) $90 - a$

b) 90°

d) $180 - a$

e) $180 + a$



③ $x = ?$

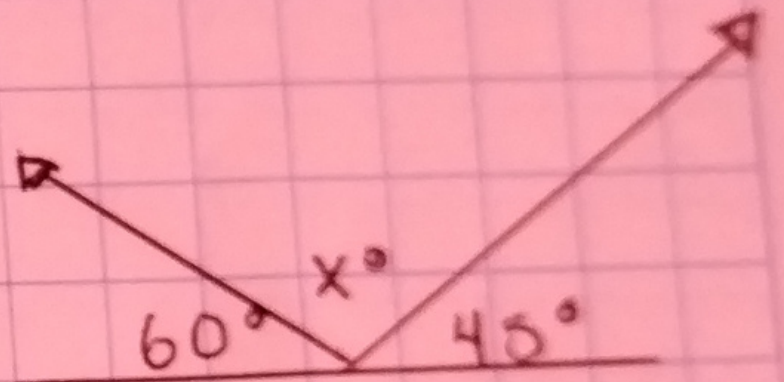
a) 30°

c) 75°

b) 45°

d) 90°

e) 105°



④ $x = ?$

a) $180 - a - b$

d) $180 - a$

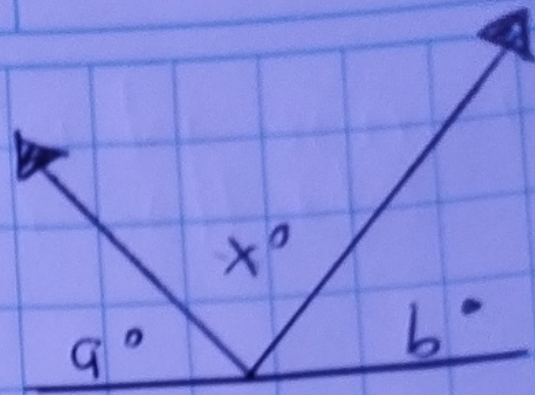
b) $2a$

e) $180 + 2a$

c) $180 - 2a$

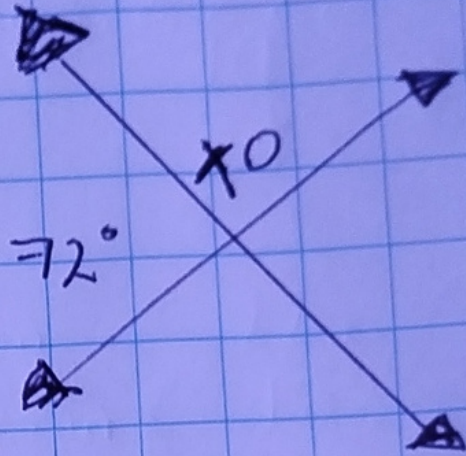
5) $x = ?$

- a) 90°
- b) $18^\circ - a - b$
- c) $a + b - 18^\circ$
- d) $-a - b$
- e) $a + b$



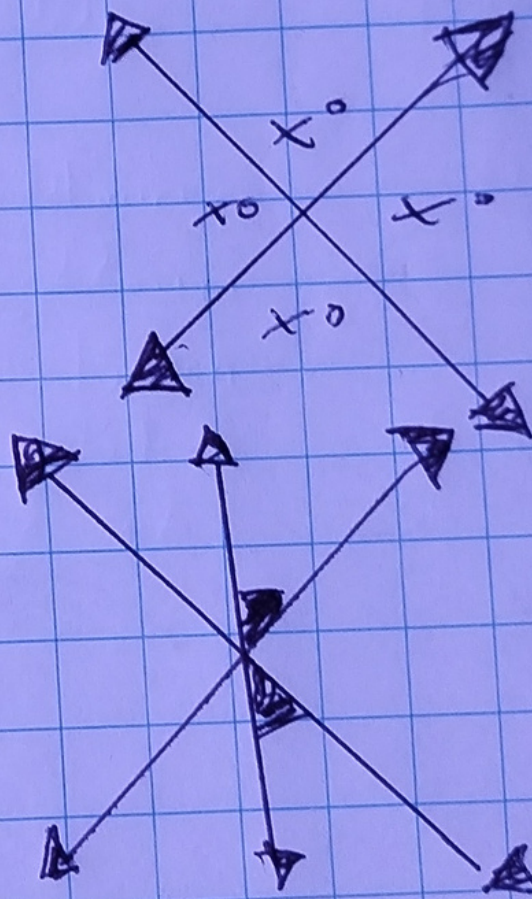
6) $x = ?$

- a) 18°
- b) 72°
- c) 90°
- d) 108°
- e) 120°



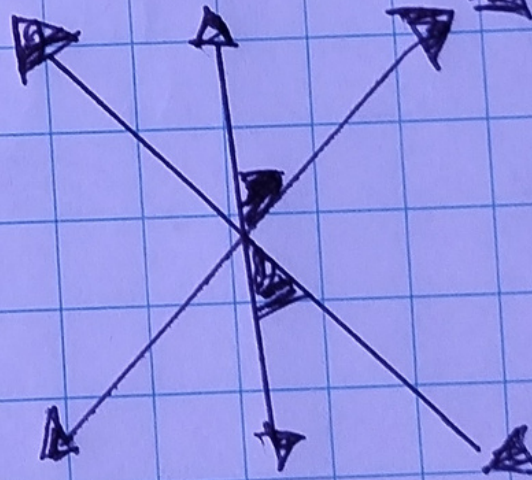
7) $x = ?$

- a) 45°
- b) 60°
- c) 90°
- d) 180°
- e) 360°



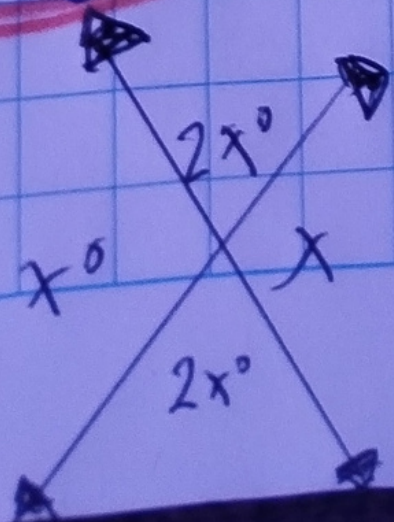
8) $x = ?$

- a) 30°
- b) 40°
- c) 50°
- d) 60°
- e) 100°



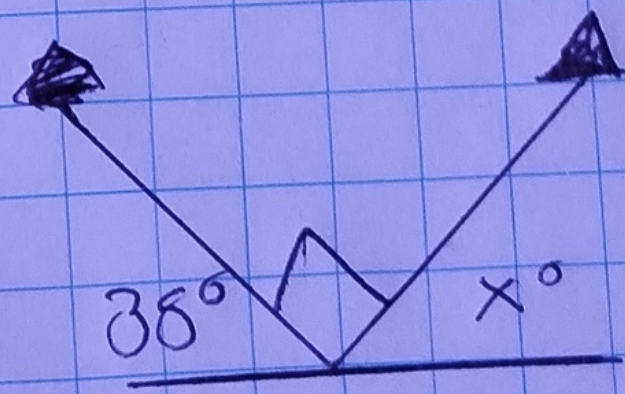
9) $x = ?$

- a) 30°
- b) 60°
- c) 90°
- d) 120°
- e) 150°



10) $x = ?$

- a) 35°
- b) 45°
- c) 55°
- d) 65°
- e) 90°





Transforma los siguientes ángulos de grados a radianes.

$$a) 0^\circ = 0$$

$$b) 30^\circ = \frac{\pi}{180} = 0.52$$

$$c) 45^\circ = \frac{\pi}{180} = 0.785$$

$$d) 60^\circ = \frac{\pi}{180} = 1.047$$

$$e) 90^\circ = \frac{\pi}{180} = 1.570$$

$$j) 210^\circ = \frac{7}{6} \pi = 1.166$$

$$a) 12^\circ = \frac{\pi}{180} = 0.209$$

$$b) 78^\circ = \frac{13}{30} \pi = 0.433$$

$$c) 36^\circ = \frac{\pi}{180} = 0.628$$

$$d) 66^\circ = \frac{11}{30} \pi = 0.366$$

$$e) 50^\circ = \frac{5}{18} \pi = 0.277$$

$$f) 115^\circ = \frac{23}{63} \pi = 0.365$$

$$f) 120^\circ = \frac{2}{3} \pi = 0.666$$

$$g) 135^\circ = \frac{3}{4} \pi = 0.75$$

$$h) 150^\circ = \frac{\pi}{180} = 2.618$$

$$i) 20^\circ = \frac{\pi}{180} = 0.349$$

INSTRUCCIONES:

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

$$\begin{array}{r}
 + \begin{array}{l} 5h \quad 45min \quad 56s \\ 4h \quad 38min \quad 45s \\ \hline 9 \quad 83 \quad 98 \\ 10 \quad 23 \quad 33 \end{array}
 \end{array}$$

$$\begin{array}{r}
 + \begin{array}{l} 2h \quad 49min \quad 53s \\ 3h \quad 56min \quad 26s \\ \hline 5 \quad 105 \quad 79 \\ 6 \quad 45 \quad 31 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l} 4h \quad 42min \quad 27s \\ 3h \quad 13min \quad 37s \\ \hline 7 \quad 55 \quad 64 \\ 7 \quad 56 \quad 06 \end{array}
 \end{array}$$

$$\begin{array}{r}
 + \begin{array}{l} 2h \quad 47min \quad 22s \\ 1h \quad 40min \quad 18s \\ \hline 3 \quad 87 \quad 40 \\ 4 \quad 45 \quad 40 \end{array}
 \end{array}$$

$$\begin{array}{r}
 + \begin{array}{l} 6h \quad 24min \quad 54s \\ 1h \quad 42min \quad 36s \\ \hline 2h \quad 15min \quad 44s \\ 15 \quad 81 \quad 134 \\ 16 \quad 37 \quad 23 \end{array}
 \end{array}$$

$$\begin{array}{r}
 \begin{array}{l} 3h \quad 14min \quad 54s \\ 4h \quad 22min \quad 35s \\ 6h \quad 18min \quad 28s \\ \hline 13 \quad 51 \quad 117 \\ 13 \quad 52 \quad 01 \end{array}
 \end{array}$$