

ELEMENTOS GEOMÉTRICOS

1. Convertir en segundos cada uno de los siguientes ángulos.

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|-----------------------------|----|-----------------------------|----|
| a) $72^{\circ} 15' 14'' =$ | '' | f) $34^{\circ} 20' 12'' =$ | '' |
| b) $160^{\circ} 2' 25'' =$ | '' | g) $60^{\circ} 18' 48'' =$ | '' |
| c) $42^{\circ} 28' 6'' =$ | '' | h) $108^{\circ} 32' 4'' =$ | '' |
| d) $210^{\circ} 52' 32'' =$ | '' | i) $80^{\circ} 23' 48'' =$ | '' |
| e) $300^{\circ} 12' 58'' =$ | '' | j) $120^{\circ} 56' 28'' =$ | '' |

2. Convertir en grados, minutos y segundos, cada uno de los siguientes ángulos.

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|--------------------|------------|---|----|------------------|------------|---|----|
| a) $147.349'' =$ | $^{\circ}$ | ' | '' | g) $78.452'' =$ | $^{\circ}$ | ' | '' |
| b) $88.601'' =$ | $^{\circ}$ | ' | '' | h) $508.540'' =$ | $^{\circ}$ | ' | '' |
| c) $309.600'' =$ | $^{\circ}$ | ' | '' | i) $904.344'' =$ | $^{\circ}$ | ' | '' |
| d) $89.523'' =$ | $^{\circ}$ | ' | '' | j) $65.096'' =$ | $^{\circ}$ | ' | '' |
| e) $171.128'' =$ | $^{\circ}$ | ' | '' | k) $2.178'' =$ | $^{\circ}$ | ' | '' |
| f) $1.009.597'' =$ | $^{\circ}$ | ' | '' | l) $50.268'' =$ | $^{\circ}$ | ' | '' |

3. Calcula el ángulo complementario a los siguientes.

- a) $43^{\circ} 15' 17'' =$
 b) $83^{\circ} 56' 38'' =$
 c) $32^{\circ} 14' 53'' =$
 d) $42^{\circ} 23' 52'' =$

4. Calcula el ángulo suplementario a los siguientes.

- a) $83^{\circ} 32' 17'' =$
 b) $27^{\circ} 32' 15'' =$
 c) $23^{\circ} 15' 23'' =$
 d) $82^{\circ} 10' 8'' =$

5. Calcula sabiendo que: $A=46^{\circ}$; $B=36^{\circ}$; $C=24^{\circ}21'$; $D=12^{\circ}56'$; $E=96^{\circ}48'24''$; $F=36^{\circ}22'43''$; $G=32^{\circ}34'45''$; $H=28^{\circ}53'47''$

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|------------------|------------|---|----|--------------|------------|---|----|
| a) $A + B =$ | $^{\circ}$ | ' | '' | e) $B - C =$ | $^{\circ}$ | ' | '' |
| b) $B + D =$ | $^{\circ}$ | ' | '' | f) $B - D =$ | $^{\circ}$ | ' | '' |
| c) $A + E =$ | $^{\circ}$ | ' | '' | g) $E - G =$ | $^{\circ}$ | ' | '' |
| d) $E + F + G =$ | $^{\circ}$ | ' | '' | h) $G - H =$ | $^{\circ}$ | ' | '' |