

Enunciados

Convierte las siguientes medidas angulares en radianes expresando el resultado con cinco cifras significativas.

① $43^{\circ} 38' 21''$	② $189^{\circ} 21' 30''$	③ $13^{\circ} 10'$	④ $23^{\circ} 49''$
⑤ $251^{\circ} 23' 35''$	⑥ $138^{\circ} 19' 25''$	⑦ $61^{\circ} 2' 35''$	⑧ $51^{\circ} 21' 8''$
⑨ $45^{\circ} 12' 31''$	⑩ $135^{\circ} 31' 17''$	⑪ $302^{\circ} 29' 51''$	⑫ $350^{\circ} 2' 18''$
⑬ $8^{\circ} 32'$	⑭ $359^{\circ} 15''$	⑮ $172^{\circ} 49' 32''$	⑯ $92^{\circ} 38' 54''$
⑰ $150^{\circ} 34' 11''$	⑱ $183^{\circ} 41' 33''$	⑲ $92^{\circ} 12' 54''$	⑳ $191^{\circ} 47' 43''$
㉑ $57^{\circ} 21' 3''$	㉒ $114^{\circ} 13' 15''$	㉓ $273^{\circ} 19' 57''$	㉔ $159^{\circ} 33' 5''$
㉕ $10^{\circ} 39' 52''$	㉖ $332^{\circ} 29' 48''$	㉗ $190^{\circ} 35' 56''$	㉘ $225^{\circ} 8' 3''$
㉙ $5^{\circ} 19' 33''$	㉚ $61^{\circ} 22' 55''$	㉛ $122^{\circ} 56' 32''$	㉜ $301^{\circ} 13' 25''$
㉝ $39^{\circ} 44' 55''$	㉞ $220^{\circ} 32'$	㉟ $133^{\circ} 49''$	㊱ $347^{\circ} 29' 12''$
㊲ $253^{\circ} 49' 11''$	㊳ $65^{\circ} 56' 43''$	㊴ $99^{\circ} 19' 51''$	㊵ $182^{\circ} 31' 46''$
㊶ $77^{\circ} 55' 22''$	㊷ $132^{\circ} 13' 25''$	㊸ $211^{\circ} 53' 36''$	㊹ $312^{\circ} 31' 12''$

Enunciados

Convierte las siguientes medidas angulares en grados, minutos y segundos sexagesimales redondeando al segundo.

④⑤ 1 rad	④⑥ 3,14 rad	④⑦ 6 rad	④⑧ 3,31 rad
④⑨ 1,571 rad	⑤⑩ 6,283 rad	⑤⑪ 0,01 rad	⑤⑫ 2,5 rad
⑤⑬ 2,22 rad	⑤⑭ 0,914 rad	⑤⑮ 3,567 rad	⑤⑯ 5,67 rad
⑤⑰ 4,058765 rad	⑤⑱ 5,55 rad	⑤⑲ 3,871 rad	⑥⑰ 3,872 rad
⑥① 0,002324 rad	⑥② 4,5 rad	⑥③ 5,4 rad	⑥④ 2,976 rad
⑥⑤ 1,78 rad	⑥⑥ 0,7635 rad	⑥⑦ 0,1155 rad	⑥⑧ 6,112 rad
⑥⑨ 0,69 rad	⑦⑩ 5,7171 rad	⑦① 3,876 rad	⑦② 4,4411 rad
⑦③ 1,956 rad	⑦④ 1,0472 rad	⑦⑤ 1,047198 rad	⑦⑥ 3,316 rad
⑦⑦ 3,665 rad	⑦⑧ 3,66519 rad	⑦⑨ 4,189 rad	⑧① 4,18879 rad
⑧① 5,843 rad	⑧② 4,871 rad	⑧③ 3,9615 rad	⑧④ 2,9412 rad
⑧⑤ 0,032 rad	⑧⑥ 0,0325 rad	⑧⑦ 1,413 rad	⑧⑧ 4,1313 rad

Soluciones

① 0,76165 rad	② 3,3049 rad	③ 0,22980 rad	④ 0,40166 rad
⑤ 4,3876 rad	⑥ 2,4142 rad	⑦ 1,0654 rad	⑧ 0,89627 rad
⑨ 0,78904 rad	⑩ 2,3653 rad	⑪ 5,2796 rad	⑫ 6,1093 rad
⑬ 0,14893 rad	⑭ 6,2658 rad	⑮ 3,0164 rad	⑯ 1,6170 rad
⑰ 2,6279 rad	⑱ 3,2060 rad	⑲ 1,6095 rad	⑳ 3,3475 rad
㉑ 1,0010 rad	㉒ 1,9935 rad	㉓ 4,7706 rad	㉔ 2,7847 rad
㉕ 0,18613 rad	㉖ 5,8032 rad	㉗ 3,3266 rad	㉘ 3,9293 rad
㉙ 0,092953 rad	㉚ 1,0713 rad	㉛ 2,1457 rad	㉜ 5,2573 rad
㉝ 0,69374 rad	㉞ 3,8490 rad	㉟ 2,3215 rad	㊱ 6,0648 rad
㊲ 4,4300 rad	㊳ 1,1510 rad	㊴ 1,7337 rad	㊵ 3,1857 rad
㊶ 1,3600 rad	㊷ 2,3077 rad	㊸ 3,6982 rad	㊹ 5,4545 rad
㊺ 57° 17' 45"	㊻ 179° 54' 31"	㊼ 343° 46' 29"	㊽ 189° 38' 57"
㊾ 90° 42"	㊿ 359° 59' 22"	㏀ 34' 23"	㏁ 143° 14' 22"
㏂ 127° 11' 48"	㏃ 52° 22' 6"	㏄ 204° 22' 27"	㏅ 324° 52' 1"
㏆ 232° 33' 0"	㏇ 317° 59' 30"	㏈ 221° 47' 31"	㏉ 221° 50' 57"
㏊ 7' 59"	㏋ 257° 49' 52"	㏌ 309° 23' 50"	㏍ 170° 30' 44"
㏎ 101° 59' 11"	㏏ 43° 44' 43"	㏐ 6° 37' 4"	㏑ 350° 11' 30"
㏒ 39° 32' 3"	㏓ 327° 33' 57"	㏔ 222° 4' 42"	㏕ 254° 27' 23"
㏖ 112° 4' 14"	㏗ 60° 0' 1"	㏘ 60° 0' 0"	㏙ 189° 59' 34"
㏚ 209° 59' 21"	㏛ 210° 0' 0"	㏜ 240° 0' 43"	㏝ 240° 0' 0"
㏞ 334° 46' 45"	㏟ 279° 5' 16"	㏠ 226° 58' 38"	㏡ 168° 31' 6"
㏢ 1° 50' 0"	㏣ 1° 51' 44"	㏤ 80° 57' 32"	㏥ 236° 42' 22"