Enunciados
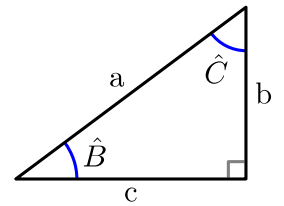
Usando la notación del triángulo de la figura de la derecha, resuelve los siguientes triángulos rectángulos. Da los lados con cinco cifras significativas y los ángulos que no sean exactos en grados, minutos y segundos, redondeando al segundo.

① $a = 12{,}7$; $c = 7{,}5$

② $\hat{C} = 27°$; $b = 67{,}3$

③ $b = 0{,}17$; $c = 0{,}22$

④ $\hat{B} = 51°$; $a = 152$

⑤ $a = 115$; $b = 99$

⑥ $\hat{C} = 79°$; $c = 0{,}113$

⑦ $a = 89$; $c = 31$

⑧ $\hat{B} = 8°$; $b = 2$

⑨ $a = 57$; $b = 32$

⑩ $\hat{C} = 49°$; $a = 100$

⑪ $b = 89$; $c = 94$

⑫ $\hat{B} = 58°$; $c = 1{,}38$

⑬ $a = 1220$; $c = 892$

⑭ $\hat{C} = 33°$; $b = 39$

⑮ $a = 1028$; $b = 921$

⑯ $\hat{C} = 19°$; $a = 15$

⑰ $b = 92$; $c = 97$

⑱ $\hat{B} = 67°$; $a = 114$

⑲ $a = 1104$; $b = 408$

⑳ $\hat{C} = 84°$; $c = 124$

㉑ $a = 1{,}13$; $c = 0{,}72$

㉒ $\hat{B} = 57°$; $c = 555$

㉓ $b = 85$; $c = 92$

㉔ $\hat{C} = 87°$; $b = 12$

㉕ $a = 17$; $b = 3$

Soluciones

① $\hat{B} = 53°\,48'\,14''$; $\hat{C} = 36°\,11'\,46''$; b = 10,249

② $\hat{B} = 63°$; a = 75,533; c = 34,291

③ $\hat{B} = 37°\,41'\,39''$; $\hat{C} = 52°\,18'\,21''$; a = 0,27803

④ $\hat{C} = 39°$; b = 118,13; c = 95,657

⑤ $\hat{B} = 59°\,24'\,52''$; $\hat{C} = 30°\,35'\,8''$; c = 58,515

⑥ $\hat{B} = 11°$; a = 0,11511; c = 0,021965

⑦ $\hat{B} = 69°\,36'\,57''$; $\hat{C} = 20°\,23'\,3''$; b = 83,427

⑧ $\hat{C} = 82°$; a = 14,371; c = 14,231

⑨ $\hat{B} = 34°\,9'\,10''$; $\hat{C} = 55°\,50'\,50''$; c = 47,170

⑩ $\hat{B} = 41°$; b = 65,606; c = 75,471

⑪ $\hat{B} = 43°\,26'\,6''$; $\hat{C} = 46°\,33'\,54''$; a = 129,45

⑫ $\hat{C} = 32°$; a = 2,6042; c = 2,2085

⑬ $\hat{B} = 43°\,1'\,2''$; $\hat{C} = 46°\,58'\,58''$; b = 832,31

⑭ $\hat{B} = 57°$; a = 46,502; c = 25,327

⑮ $\hat{B} = 63°\,37'\,34''$; $\hat{C} = 26°\,22'\,26''$; c = 456,67

⑯ $\hat{B} = 71°$; b = 14,183; c = 4,8835

⑰ $\hat{B} = 43°\,29'\,5''$; $\hat{C} = 46°\,30'\,55''$; a = 133,69

⑱ $\hat{C} = 23°$; b = 104,95; c = 44,543

⑲ $\hat{B} = 21°\,41'\,20''$; $\hat{C} = 68°\,18'\,40''$; c = 1025,8

⑳ $\hat{B} = 6°$; a = 124,68; b = 13,033

㉑ $\hat{B} = 50°\,25'\,8''$; $\hat{C} = 39°\,34'\,52''$; b = 0,87092

㉒ $\hat{C} = 33°$; a = 1019,0; b = 854,63

㉓ $\hat{B} = 42°\,44'\,7''$; $\hat{C} = 47°\,15'\,53''$; a = 125,26

㉔ $\hat{B} = 3°$; a = 229,29; c = 228,97

㉕ $\hat{B} = 10°\,9'\,51''$; $\hat{C} = 79°\,50'\,9''$; c = 16,733