

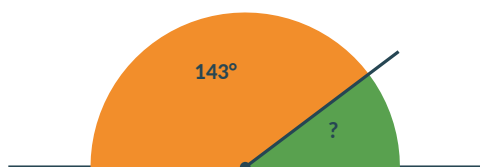
Uhly v trojuholníku a priamkach

100 farebných príkladov

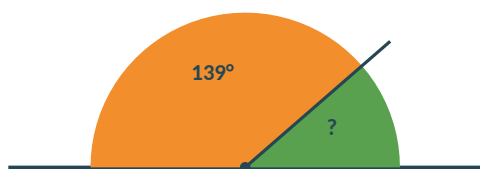
Autor: Mgr. J. Zvolenský – ZŠ Skýcov

1) Vypočítaj veľkosť neznámeho uhla (uhly na priamke)

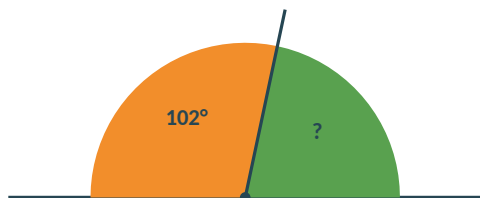
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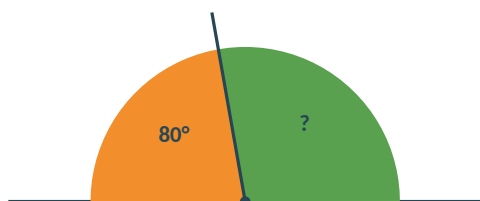
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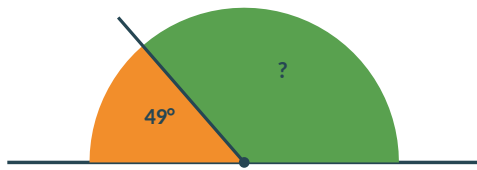
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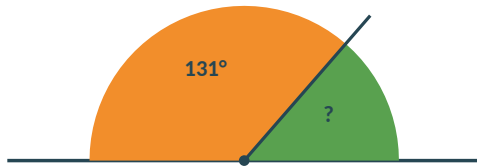
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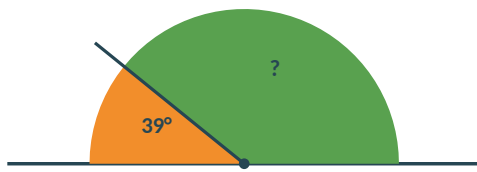
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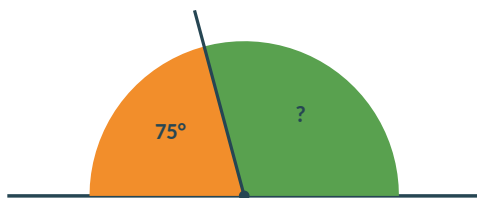
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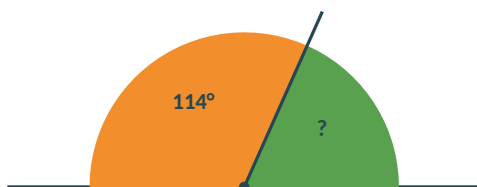
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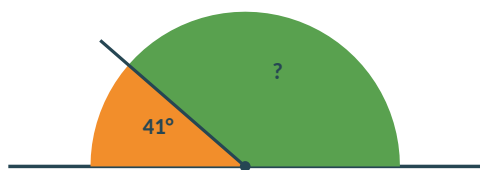
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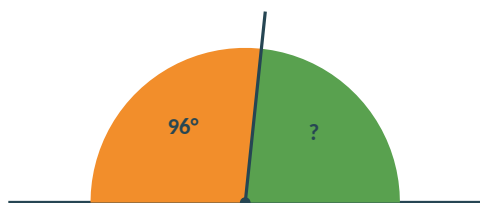
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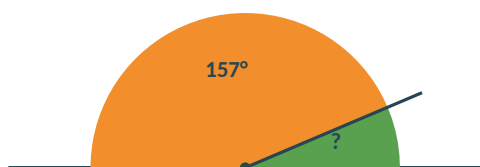
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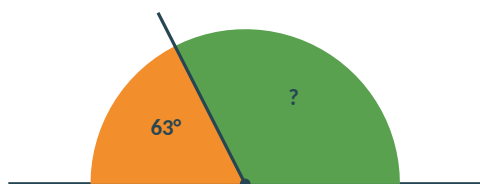
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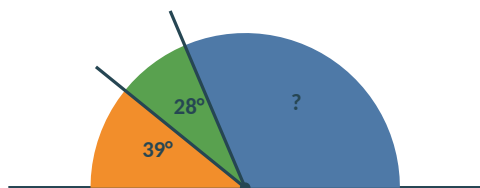


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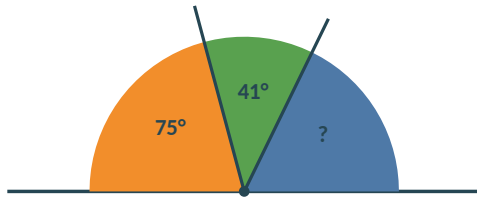


2) Vypočítaj veľkosť neznámeho uhla (uhly na priamke, viac častí)

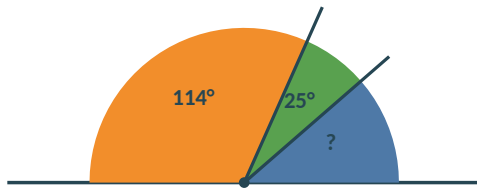
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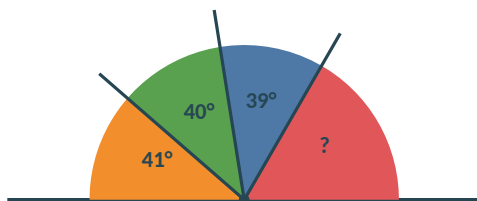
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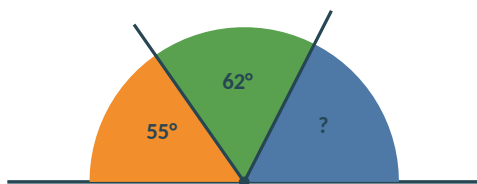
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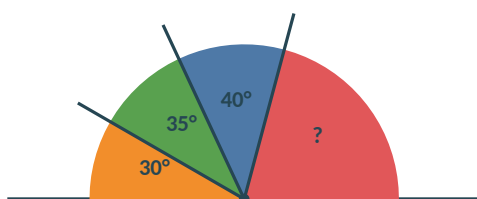
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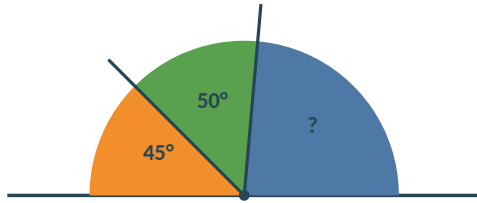
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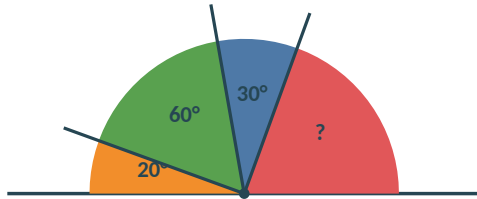
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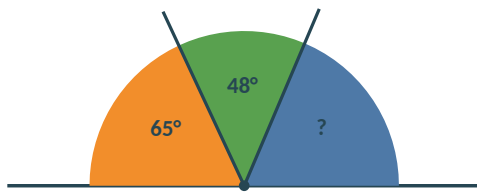
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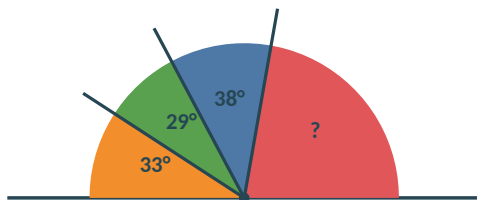
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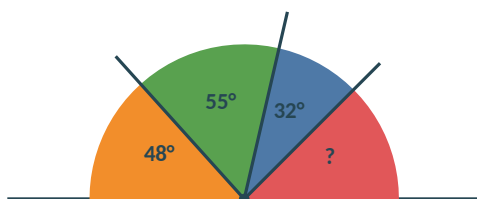
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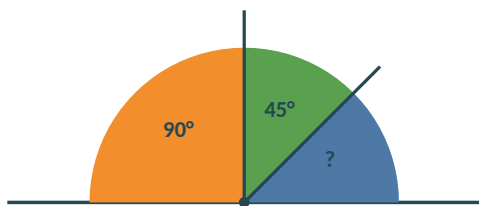
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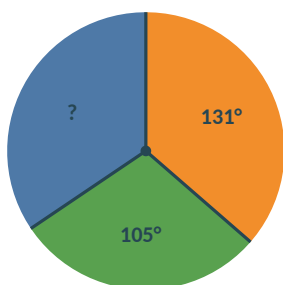


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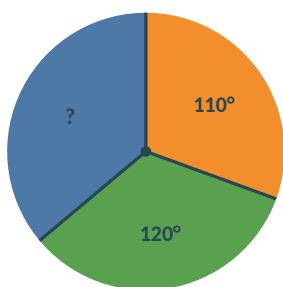


3) Vypočítaj veľkosť neznámeho uhla (uhly okolo bodu)

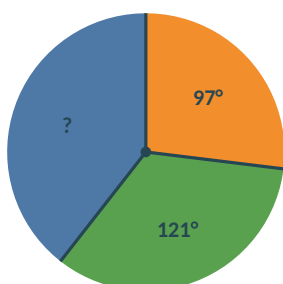
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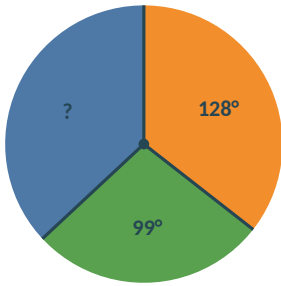
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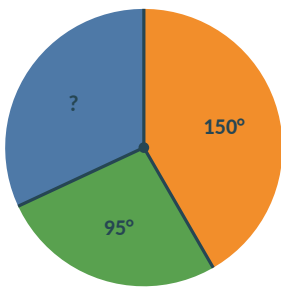
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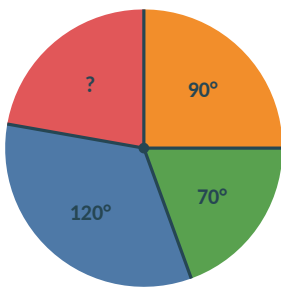
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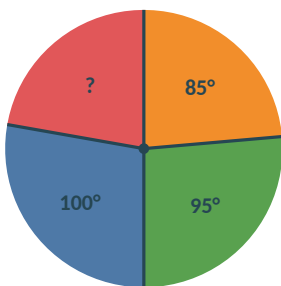
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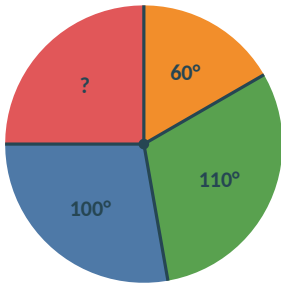
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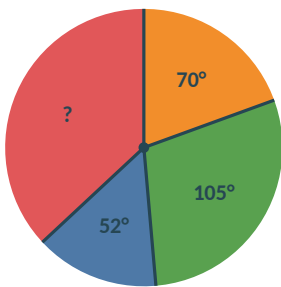
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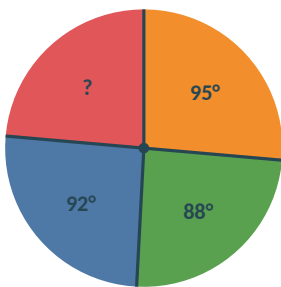
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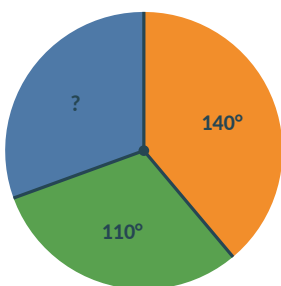
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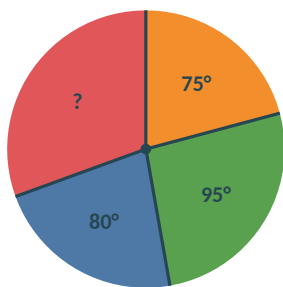
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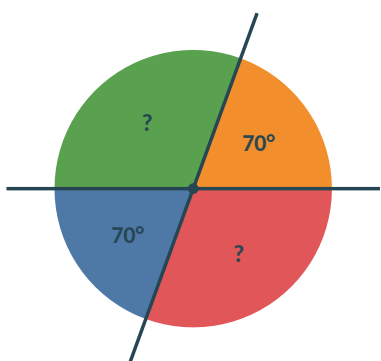


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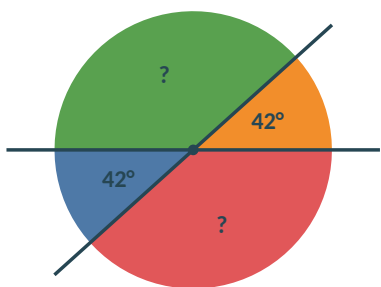


4) Vrcholové a vedľajšie uhly (dve priamky)

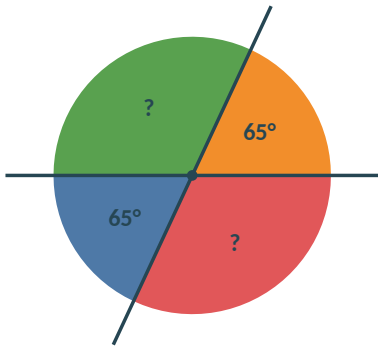
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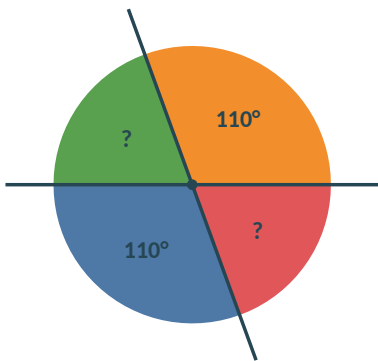
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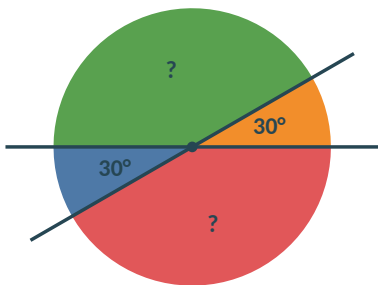
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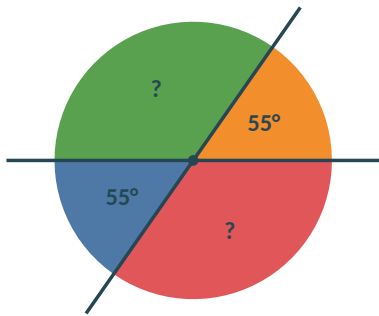
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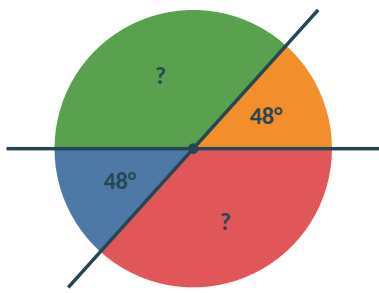
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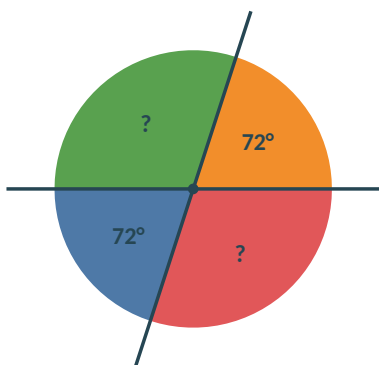
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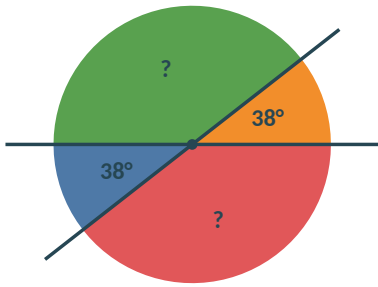
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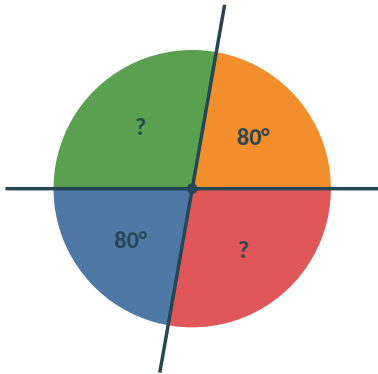
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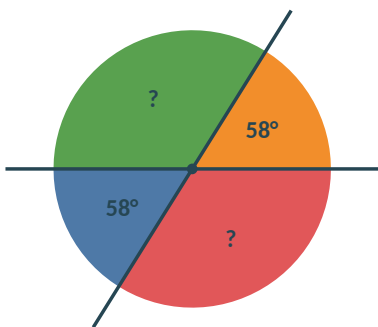
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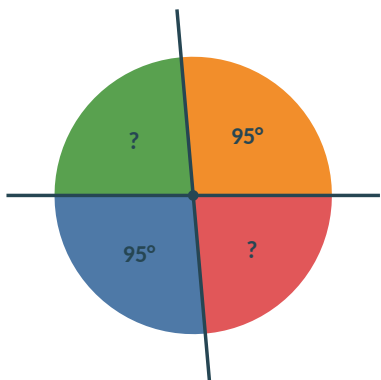
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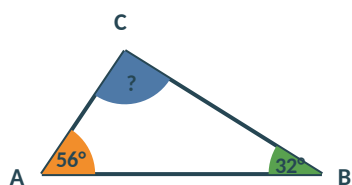


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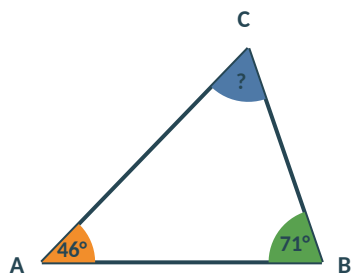


5) Vypočítaj veľkosť tretieho uhla trojuholníka

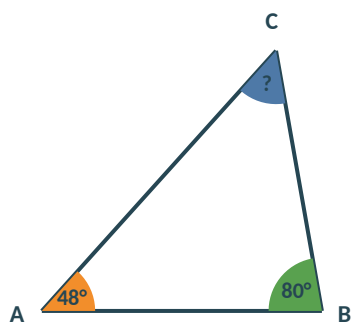
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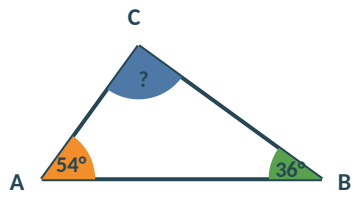
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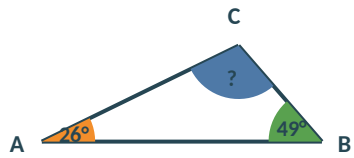
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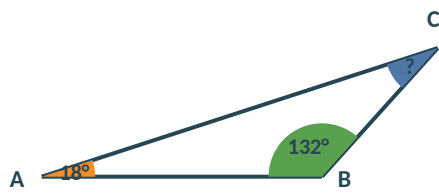
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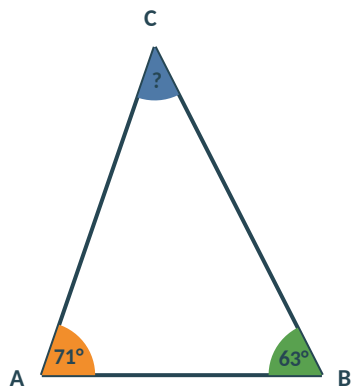
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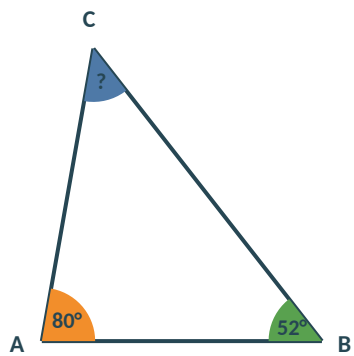
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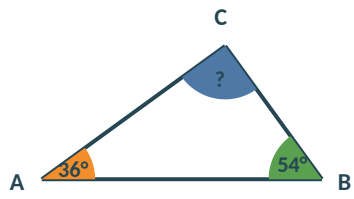
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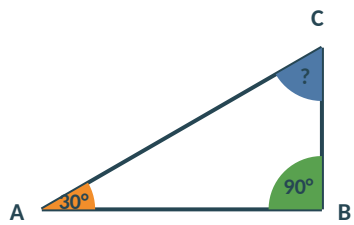
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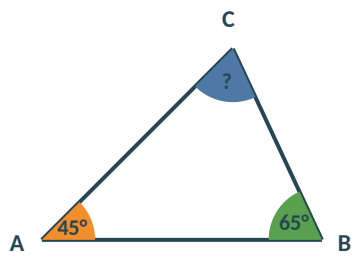
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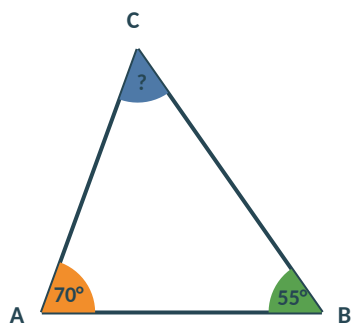
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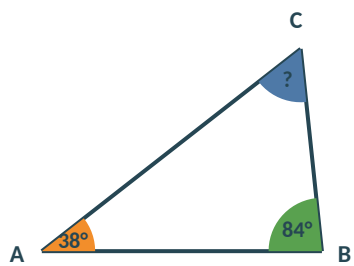
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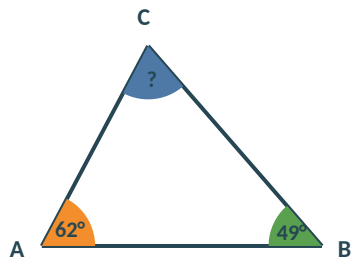
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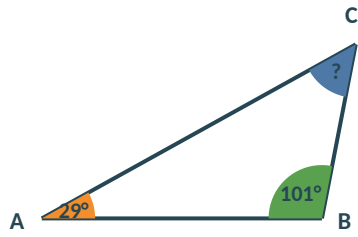
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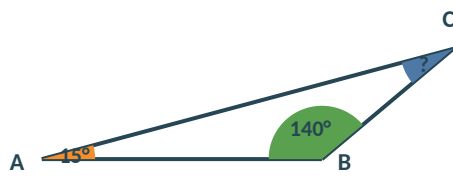
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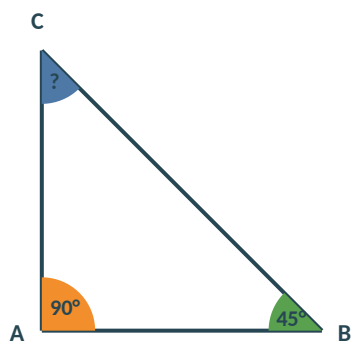
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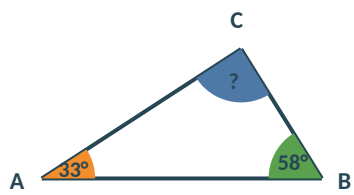
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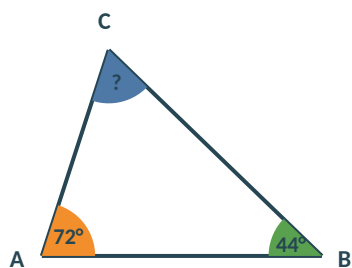
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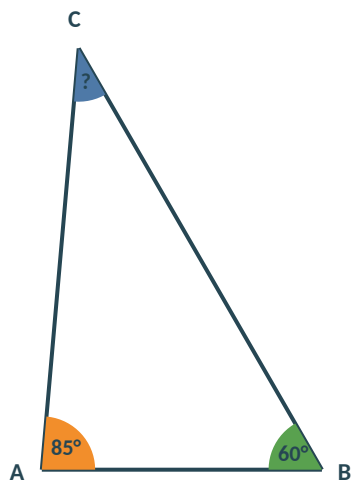
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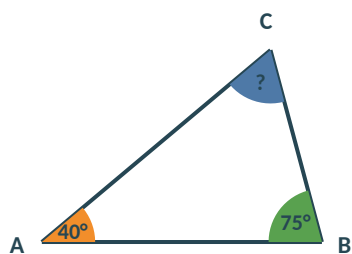
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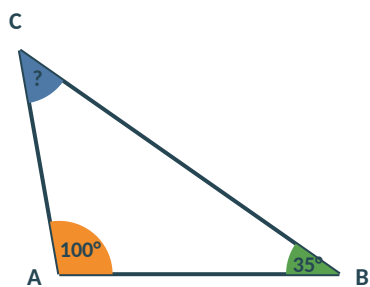
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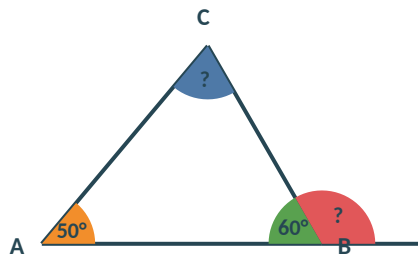
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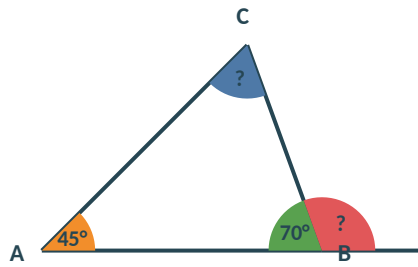
6) Vonkajší uhol trojuholníka

Vonkajší uhol trojuholníka sa rovná súčtu dvoch vzdialených vnútorných uhlov.

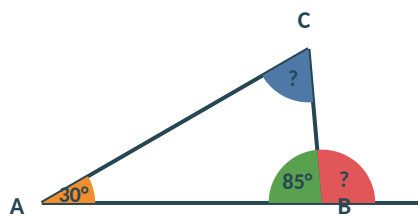
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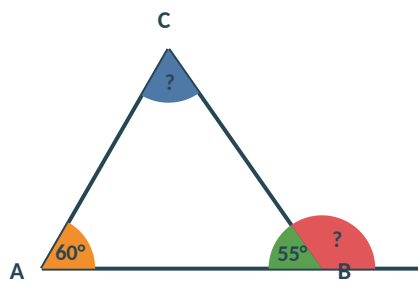
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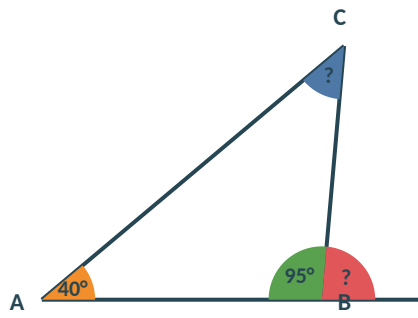
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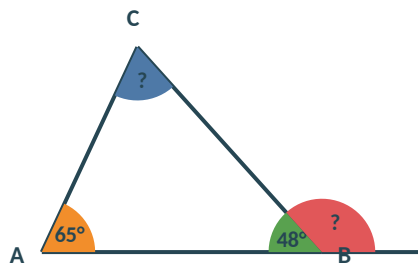
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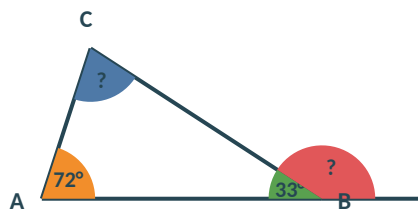
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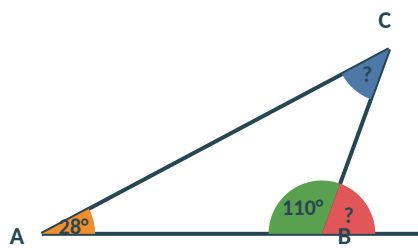
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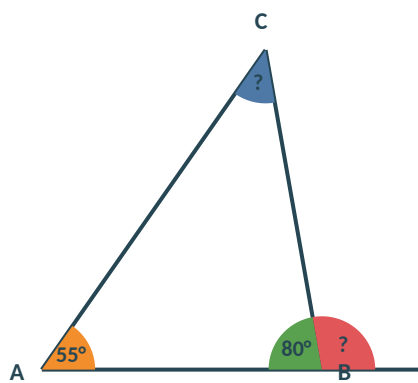
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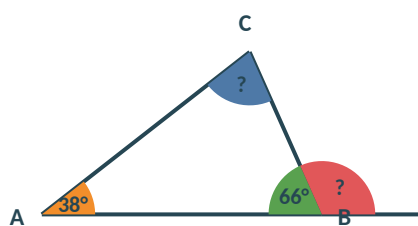
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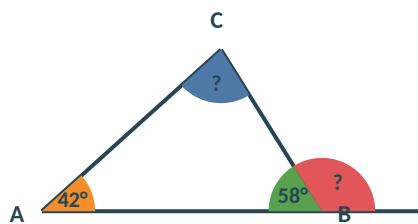
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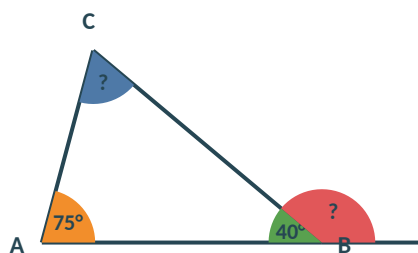
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82.



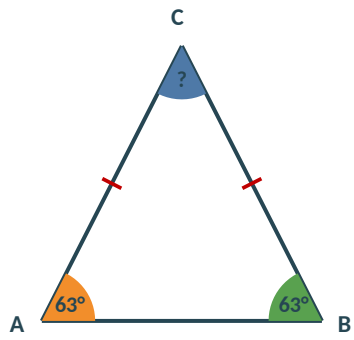
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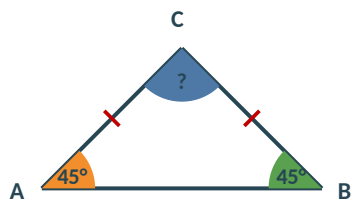
7) Rovnoramenný trojuholník - nájdi zvyšné uhly

Základňové uhly rovnoramenného trojuholníka sú vždy zhodné.

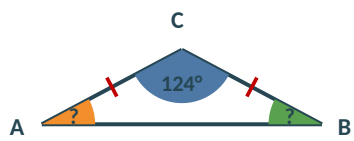
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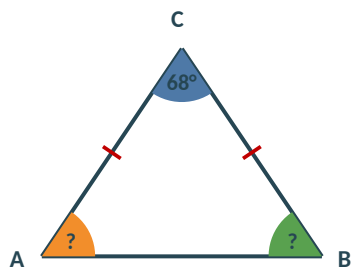
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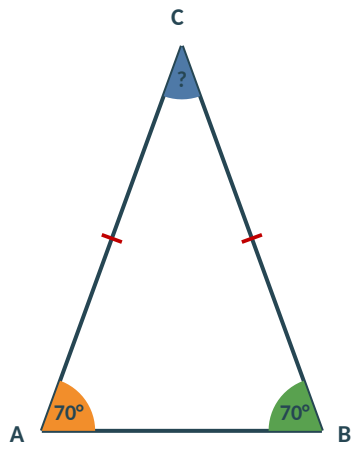
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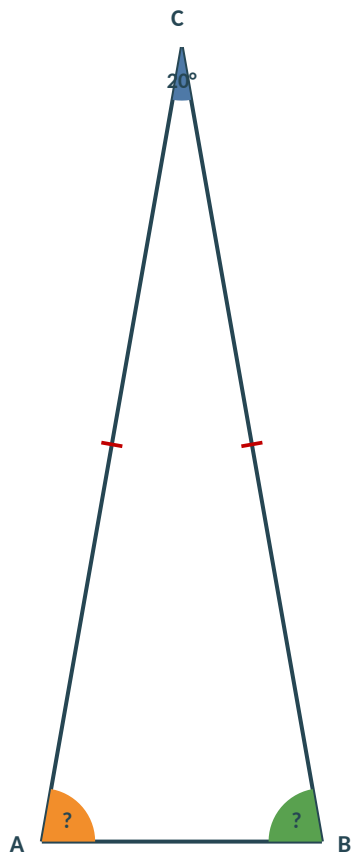
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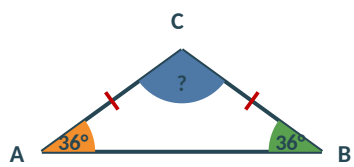
88.



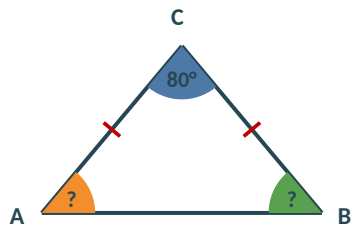
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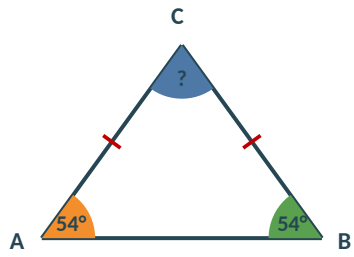
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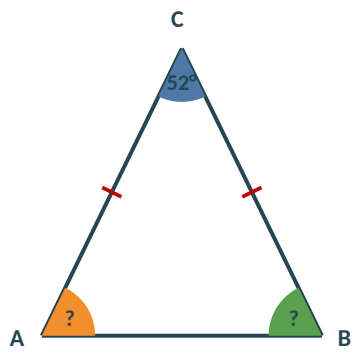
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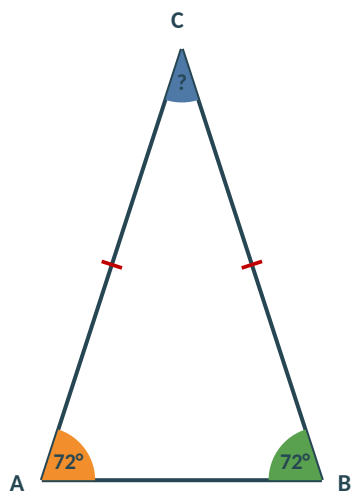
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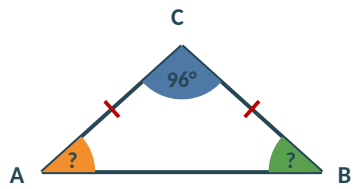
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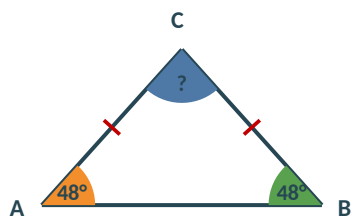
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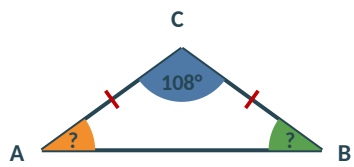
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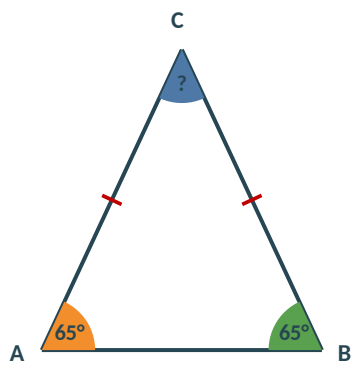
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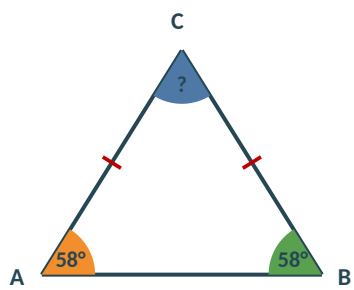
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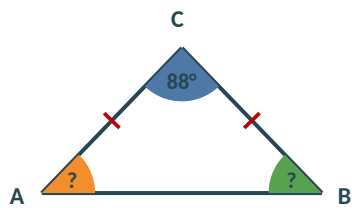
98.



99.



100.



Poznámka: pracovný list precvičuje uhly na priamke a okolo bodu, vrcholové a vedľajšie uhly, súčet vnútorných uhlov trojuholníka, vonkajší uhol trojuholníka a rovnoramenný trojuholník.

Riešenia

1) Uhly na priamke (2 časti)

1. 37°
2. 41°
3. 78°
4. 100°
5. 131°
6. 49°
7. 141°
8. 105°
9. 66°
10. 139°
11. 84°
12. 23°
13. 117°

2) Uhly na priamke (viac častí)

14. 113°
15. 64°
16. 41°
17. 60°
18. 63°
19. 75°
20. 85°
21. 70°
22. 67°
23. 80°
24. 45°
25. 45°

3) Uhly okolo bodu

26. 124°
27. 130°
28. 142°
29. 133°
30. 115°
31. 80°
32. 80°
33. 90°
34. 133°
35. 85°
36. 110°
37. 110°

4) Vrcholové a vedľajšie uhly

38. vrcholový = 70° , obidva vedľajšie = 110°
39. vrcholový = 42° , obidva vedľajšie = 138°
40. vrcholový = 65° , obidva vedľajšie = 115°
41. vrcholový = 110° , obidva vedľajšie = 70°
42. vrcholový = 30° , obidva vedľajšie = 150°
43. vrcholový = 55° , obidva vedľajšie = 125°
44. vrcholový = 48° , obidva vedľajšie = 132°
45. vrcholový = 72° , obidva vedľajšie = 108°

46. vrcholový = 38° , obidva vedľajšie = 142°
47. vrcholový = 80° , obidva vedľajšie = 100°
48. vrcholový = 58° , obidva vedľajšie = 122°
49. vrcholový = 95° , obidva vedľajšie = 85°

5) Súčet vnútorných uhlov trojuholníka

50. 92°
51. 63°
52. 52°
53. 90°
54. 105°
55. 30°
56. 46°
57. 48°
58. 90°
59. 60°
60. 70°
61. 55°
62. 58°
63. 69°
64. 50°
65. 25°
66. 45°
67. 89°
68. 64°
69. 35°
70. 65°
71. 45°

6) Vonkajší uhol trojuholníka

72. tretí vnútorný uhol = 70° , vonkajší uhol = 110°
73. tretí vnútorný uhol = 65° , vonkajší uhol = 115°
74. tretí vnútorný uhol = 65° , vonkajší uhol = 115°
75. tretí vnútorný uhol = 65° , vonkajší uhol = 115°
76. tretí vnútorný uhol = 45° , vonkajší uhol = 135°
77. tretí vnútorný uhol = 67° , vonkajší uhol = 113°
78. tretí vnútorný uhol = 75° , vonkajší uhol = 105°
79. tretí vnútorný uhol = 42° , vonkajší uhol = 138°
80. tretí vnútorný uhol = 45° , vonkajší uhol = 135°
81. tretí vnútorný uhol = 76° , vonkajší uhol = 104°
82. tretí vnútorný uhol = 80° , vonkajší uhol = 100°
83. tretí vnútorný uhol = 65° , vonkajší uhol = 115°

7) Rovnoramenný trojuholník

84. vrcholový uhol = 54°
85. vrcholový uhol = 90°
86. základňové uhly = 28° (každý)
87. základňové uhly = 56° (každý)
88. vrcholový uhol = 40°
89. základňové uhly = 80° (každý)
90. vrcholový uhol = 108°
91. základňové uhly = 50° (každý)
92. vrcholový uhol = 72°
93. základňové uhly = 64° (každý)

- 94. vrcholový uhol = 36°
- 95. základňové uhly = 42° (každý)
- 96. vrcholový uhol = 84°
- 97. základňové uhly = 36° (každý)
- 98. vrcholový uhol = 50°
- 99. vrcholový uhol = 64°
- 100. základňové uhly = 46° (každý)