Mathematics

Impossible triangles

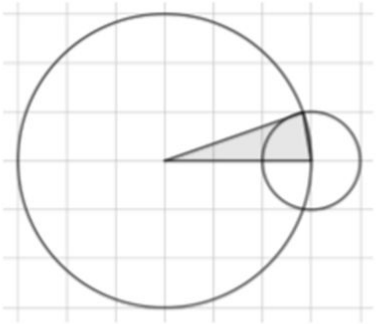
Independent Task

Miss Oreyomi

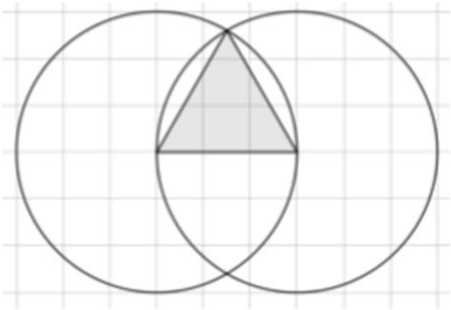
Questions

1) What are the side lengths of each of the triangles on the **centimetre gird?** What do they have in common?

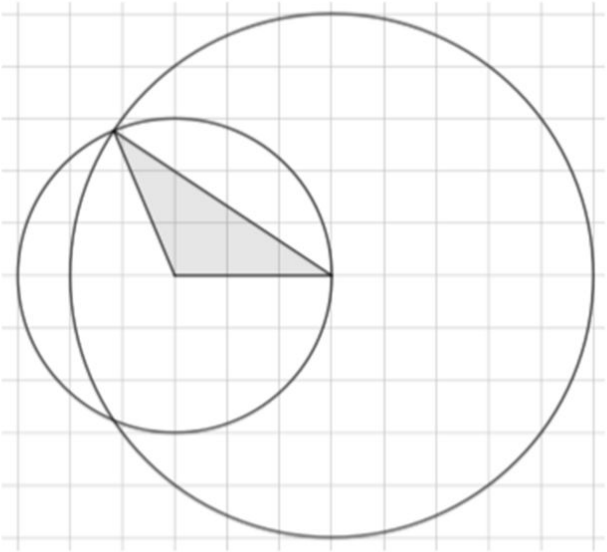
a)



b)



c)



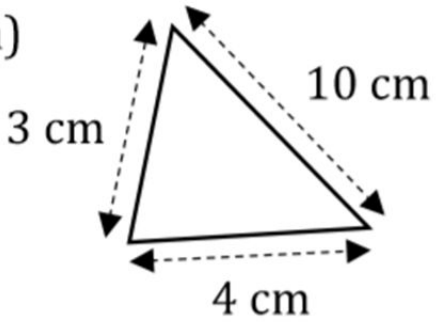
Questions

2) Explain why an isosceles triangle with side lengths 3cm, 3cm and 6cm is impossible.

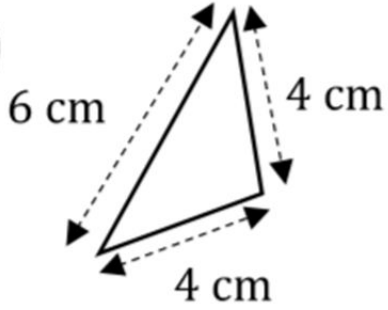
Questions

3) Which of these triangles are possible?

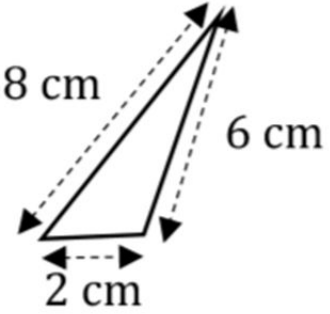
a)



b)



c)



[Not to scale]

Questions

4) An isosceles triangle has side lengths a cm and b cm. What range of values can b take for the triangle to be possible?