

Institute of Education



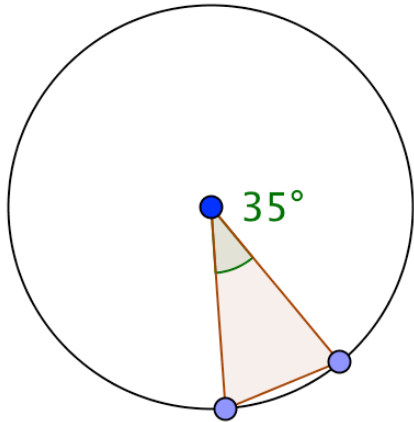
UCL

Practical approaches to developing proof in geometry

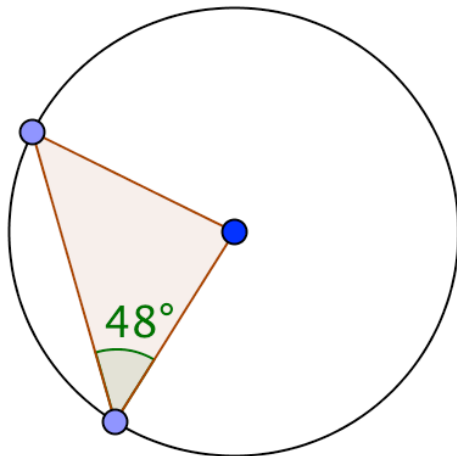
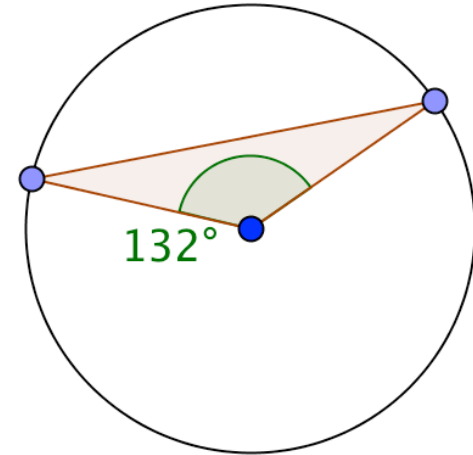
Dr Nicola Bretscher

MA annual conference 2017

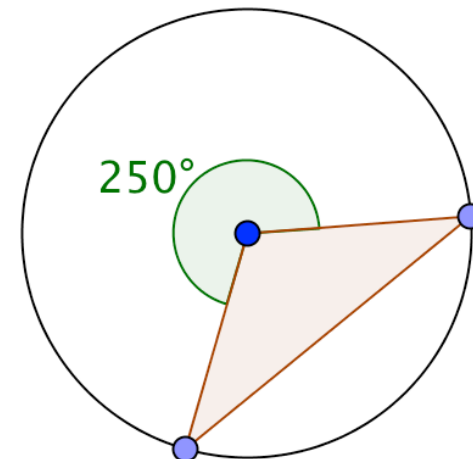
Starter



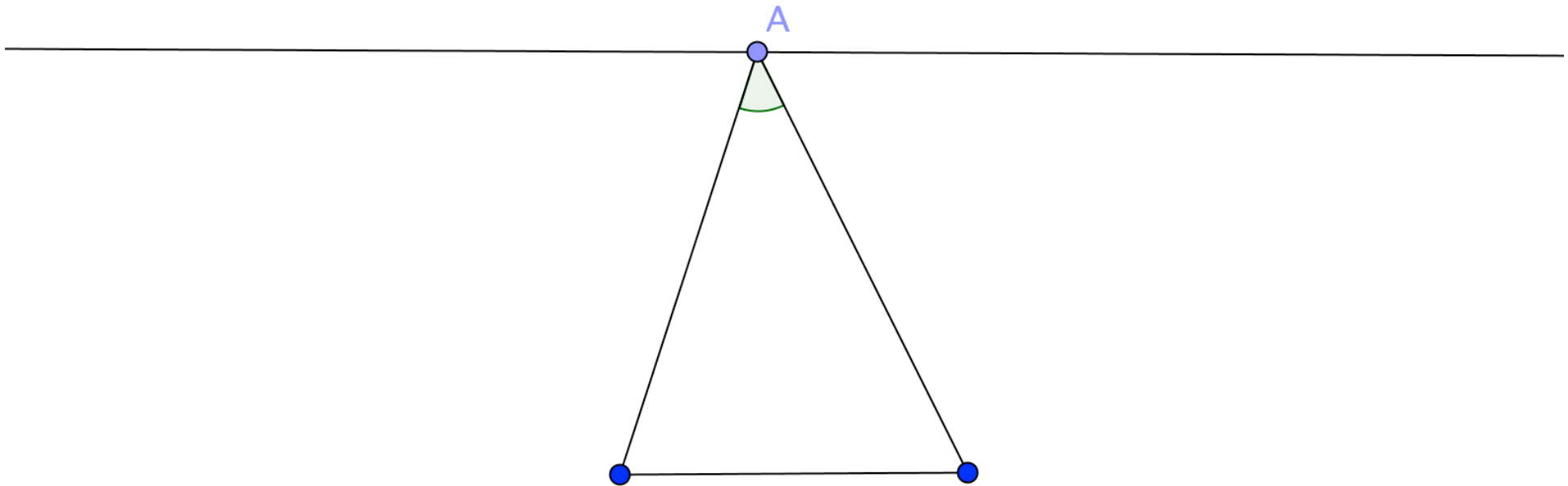
What kind of triangles are these?
How do you know?



Calculate as many angles as you can!



What will happen to the marked angle if I move point A to the left / to the right?



Activity 1



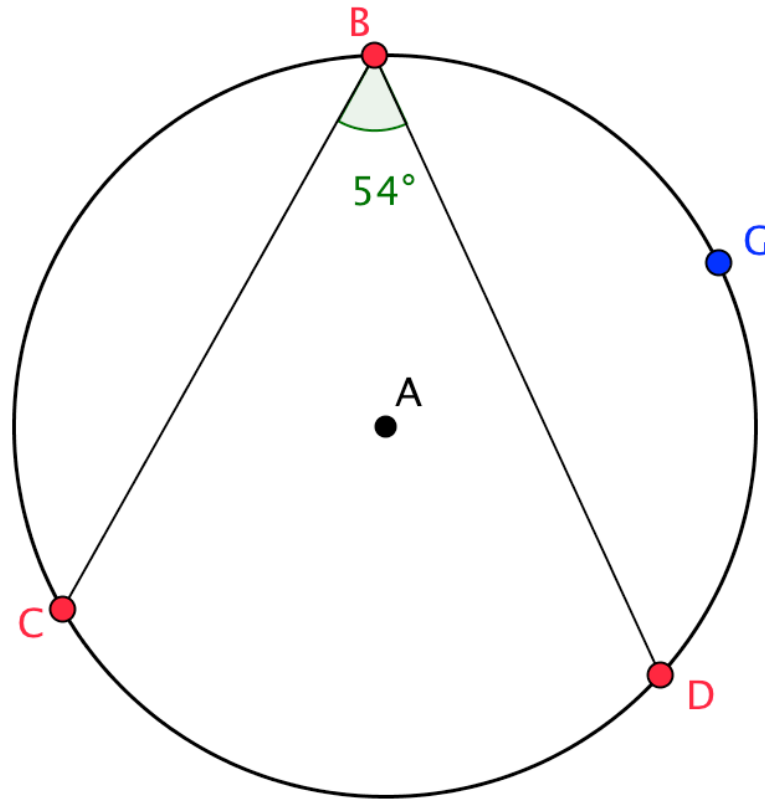
Try using:

- an acute angle
- an obtuse angle
- a right angle

What shape do you make?

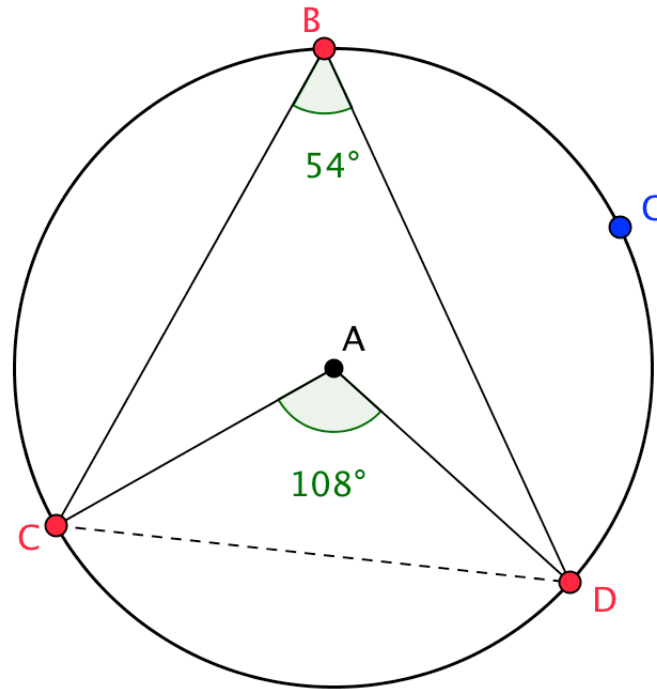
Activity 2: Using GeoGebra

Diagram 1



Activity 2: Using GeoGebra

Diagram 1



Now for proof

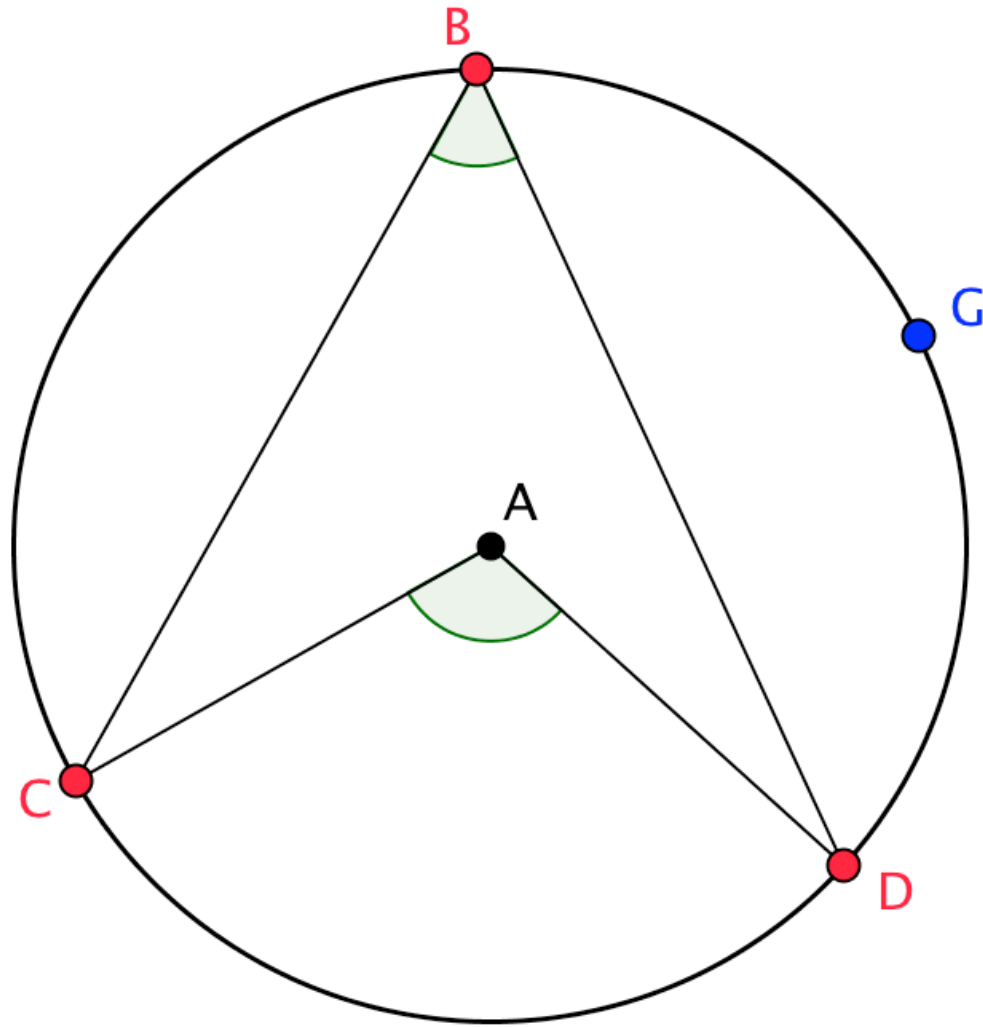
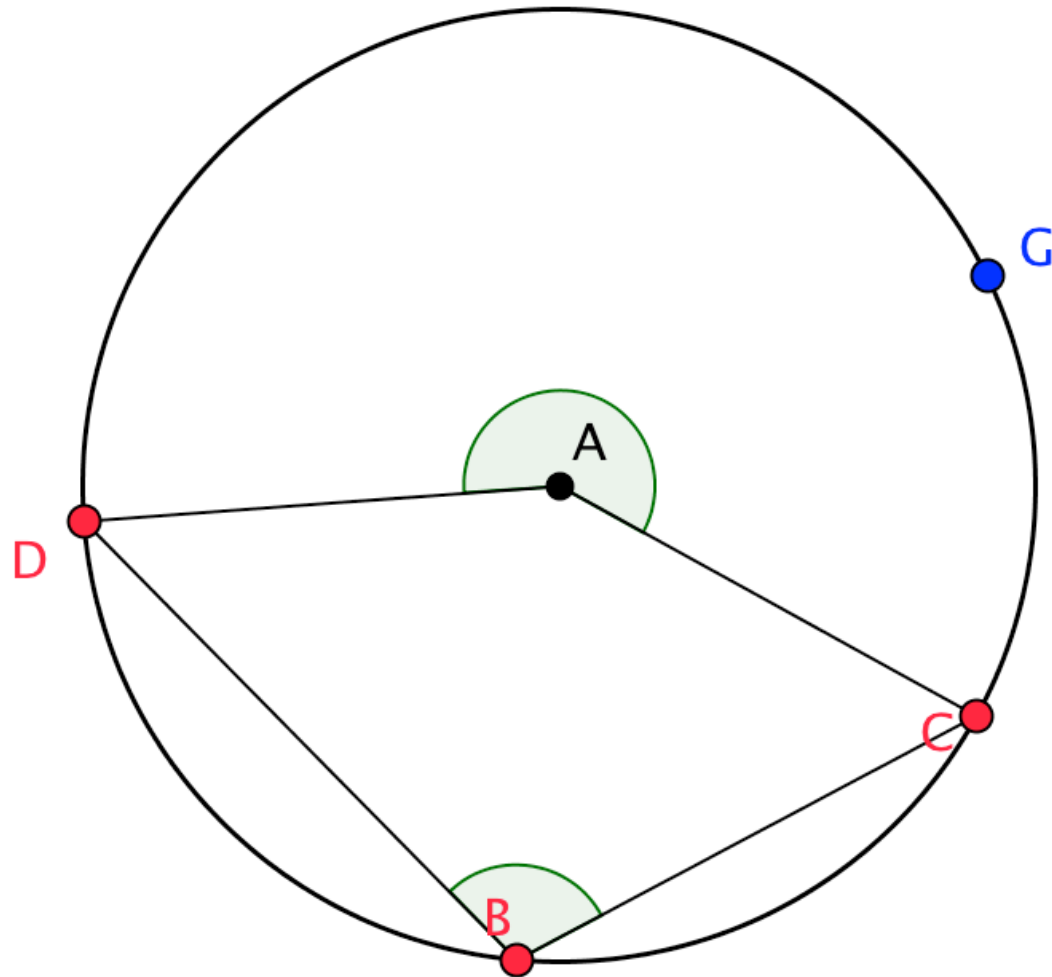


Diagram 1

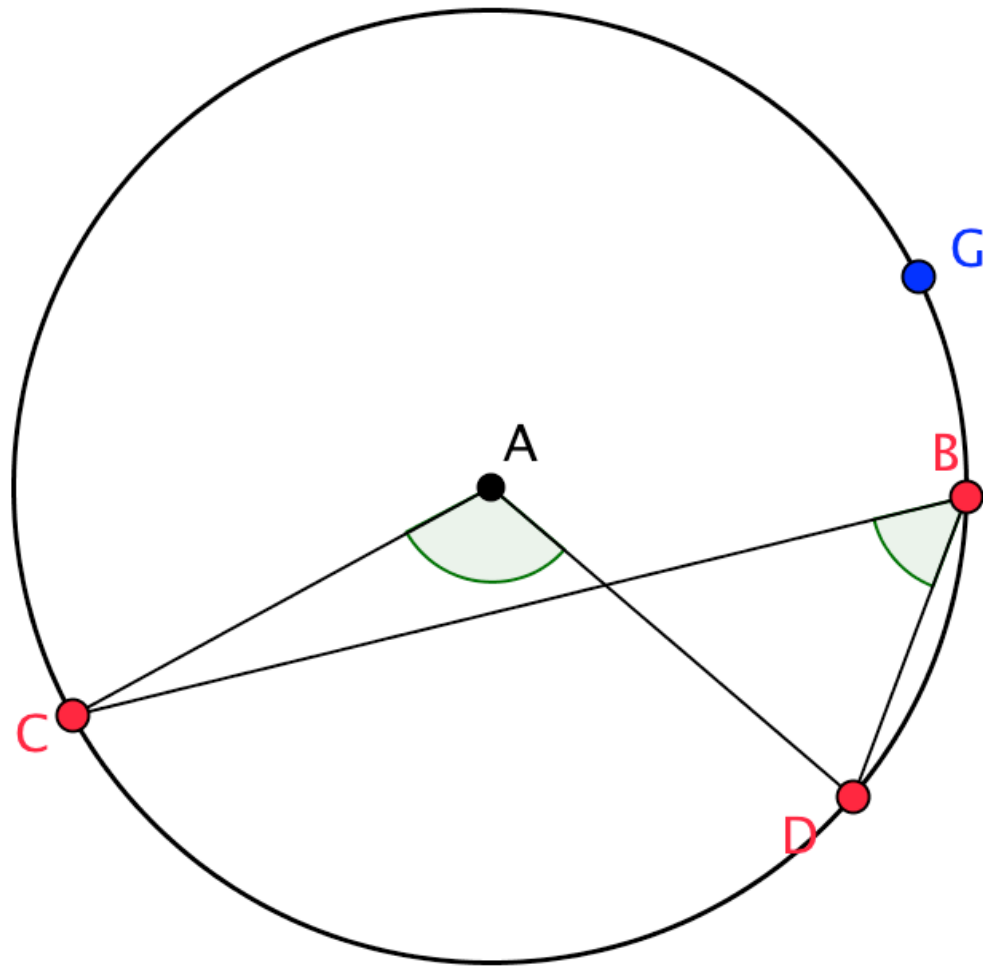
What about this...?

Diagram 1



Or this...?

Diagram 1



Now... how about these?

