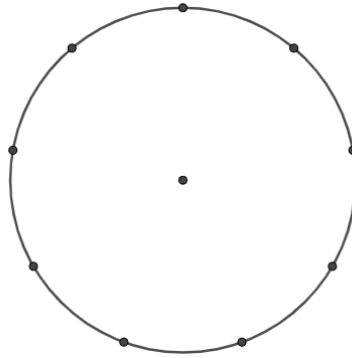
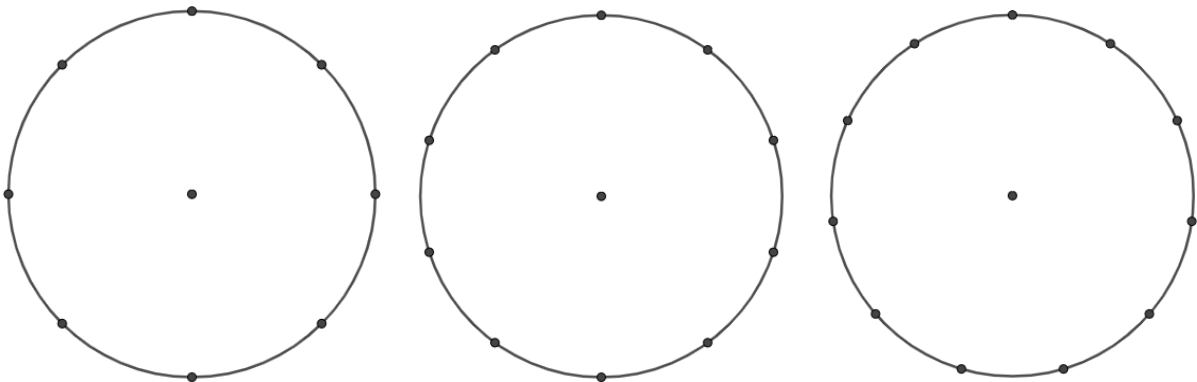


Can you make a right-angled triangle by joining up three of the points on the edge of this circle?

Can you work systematically to prove your answer?



Now try changing the number of points round the edge. Can you do it now?



Can you show by calculation that the angle is a right angle?

What do you notice about the side of the triangle opposite the right angle?

Try this with other numbers of points round the edge. When is it possible to make a right-angled triangle?

In this interactivity, the points are equally spaced around a circle. Imagine that they are not.

Can you explain the conditions which will give a right-angled triangle?

Can you prove this?