

**YOU & MATHS** **Hunting for good points** Draw two non-coincident points  $A$  and  $B$ . Then find at least 3 good positions in which to place a point  $C$  such that  $\widehat{ACB}$  is a right angle. You may find it easier to work with dynamic geometry software than with paper and pencil.

Possible good positions are  $C$ ,  $C_1$ , and  $C_2$  as shown in the figure below. If you try to find other possible sets of positions, you may come to the conjecture that all the points lie on a circumference. Is that actually what you find?

