Using Autograph – Alternate Segment Theorem

 Open Autograph in Standard Level.

 Edit Axes and remove the axes, grid and key (under “Options” tab).

 Click the 0.1 Snap Settings.

 Draw a point in roughly the middle of the page.

 Select the point and right click to add a “Circle (Radius)…”. In the dialogue box give it a radius of 2.5.

 Add three points on the circle.

 Join point A to point B by selecting the points, right clicking and choosing “Line Segment”. Also join point A to point C. Join point B to point C.

 Select point A, and right click to add “Tangent”.

 Select points A, B and C (in that order) and right click to add “Angle…”. Click OK in the dialogue box. Do the same for A, C and B (in that order).

 Add two points on the tangent, either side of A.

 Add the “Angle…” QAB and PAC.

Write ***in your own words*** about the connection between the angles in the alternate segments.