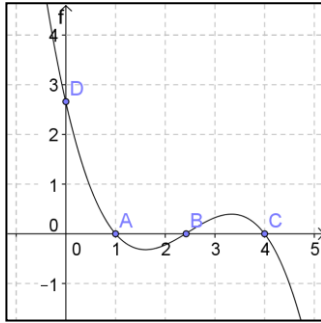


# Problem Solving with GeoGebra

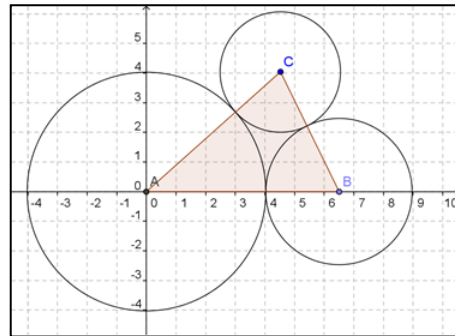
## Construction Problems for AS Mathematics

1.



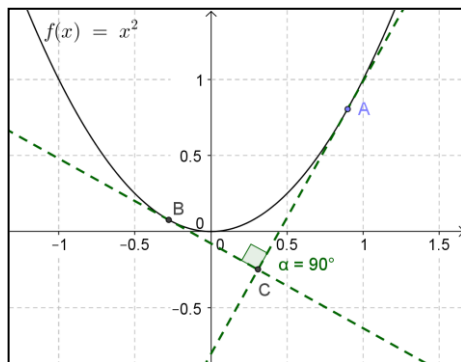
Create points A, B and C fixed to the x-axis and D fixed to the y-axis. Construct a cubic that passes through A, B, C and D.

2.



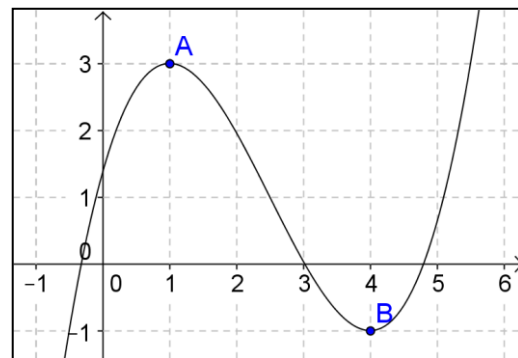
Create a triangle with one point on the origin and one point on the x-axis. Construct circles centred on each vertex such that all three circles touch each other.

3.



Plot the curve  $f(x)=x^2$  and add a point A to the curve. Construct the point B such that the tangents at A and B are perpendicular.

4.



Create two points A and B. Construct a cubic that has stationary points at A and B.