Edexcel Further Maths Polar coordinates



Section 2: The area of a sector

Crucial points

- Make sure you know how to find the area of a sector by integration
 - Remember that the area of a sector is found by integrating $\frac{1}{2}r^2$ with respect to θ .
- 2. Be careful with integration, in particular when integrating $\cos^2\theta$ or $\sin^2\theta$
 - Remember the use of the double angle identity to integrate $\cos^2\theta$ or $\sin^2\theta$.
- 3. Make sure that you use the correct limits of integration Always sketch the curve and use it to check the limits of the integration.

