Edexcel AS Mathematics Differentiation



Section 4: More about differentiation

Crucial points

- Remember that you can't use the second derivative test when both the first and second derivatives are zero
 If the second derivative is zero, use the gradient method.
- 2. In a maximum or minimum problem, make sure that you answer the question

For example, in a problem involving maximising the volume of a shape, make sure that you calculate the actual maximum volume obtained from the stationary value if you are asked for this.

3. Draw diagrams

When dealing with problems involving maximising or minimising, you should draw a clear diagram, which will help you to write down appropriate equations.

