

## MEI Core 2

### Further differentiation and integration

#### Chapter assessment

1. Differentiate the following
  - (i)  $y = \frac{3+2x}{\sqrt{x}}$  [3]
  - (ii)  $y = \frac{(x-2)(2x+1)}{x^4}$  [3]
2. Find the following indefinite integrals
  - (i)  $\int \left( 2\sqrt{x} - \frac{3}{\sqrt{x}} \right) dx$  [3]
  - (ii)  $\int \left( \frac{2}{x^2} - \frac{1}{2x^3} \right) dx$  [3]
3. Find the following definite integrals
  - (i)  $\int_1^9 (2-x)\sqrt{x} \, dx$  [4]
  - (ii)  $\int_1^2 \left( \frac{6}{x^2} - \frac{8}{x^3} \right) dx$  [4]
4.
  - (i) Find the gradient of the graph  $y = x - \frac{2}{x^2}$  at the point where  $x = -1$ . [2]
  - (ii) Find the equation of the tangent to the graph at this point. [3]
  - (iii) Find the equation of the normal to the graph at this point. [3]
5. Find the coordinates of the stationary points of the graph  $y = \frac{1}{x} + \frac{1}{x^2} - \frac{1}{x^3}$  and determine the nature of each. [5]
6. Find the equation of the graph with gradient function  $\frac{dy}{dx} = \frac{1}{x^2} - x\sqrt{x}$  which passes through the point (1, 2). [3]
7. A closed rectangular tank is to have dimensions  $x$  m,  $2x$  m and  $y$  m, and is to have a capacity of 9 cubic metres. To keep costs down the surface area of the tank is to be as small as possible.
  - (i) Write down expressions for the volume and the surface area of the tank in terms of  $x$  and  $y$ , and hence find an expression for  $A$  in terms of  $x$  only. [3]
  - (ii) Find the value of  $x$  for which  $A$  has a stationary point, and show that this is a minimum point. [4]
  - (iii) Find the dimensions of the tank for which  $A$  is as small as possible, and the corresponding value of  $A$ . [2]

# Mei Fp1 Chapter Assessment Answers

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