

Edexcel Maths C1

Topic Questions from Papers

Algebra & Functions













10. (a) On the same axes sketch the graphs of the curves with equations

(i)  $y = x^2(x - 2)$ , (3)

(ii)  $y = x(6 - x)$ , (3)

and indicate on your sketches the coordinates of all the points where the curves cross the  $x$ -axis.

(b) Use algebra to find the coordinates of the points where the graphs intersect. (7)

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## Core Mathematics C1

### *Mensuration*

$$\text{Surface area of sphere} = 4\pi r^2$$

$$\text{Area of curved surface of cone} = \pi r \times \text{slant height}$$

### *Arithmetic series*

$$u_n = a + (n - 1)d$$

$$S_n = \frac{1}{2}n(a + l) = \frac{1}{2}n[2a + (n - 1)d]$$