

Section 1: Finding areas

Crucial points

1. **Make sure you get x's and y's the right way round, especially when finding an area between a curve and the y-axis**

The area between a curve and the y -axis is given by $\int_c^d x dy$. You must express x in terms of y so that you can integrate with respect to y . Remember that the limits of the integration are y -values, not x -values.

2. **Draw diagrams**

Always sketch the curve (if you are not given a diagram) when you are finding an area, and shade the relevant region.