**13A Introduction to Integration**

1. Integrate the following:
2. Find:
3. Find:
4. Find:
5. Find:

**13C Finding C**

1. The curve X with equation y = f(x) passes through the point (2,15). Given that:

Find the equation of X.

1. The curve X with equation y = f(x) passes through the point (4,5). Given that:

Find the equation of X.

**13D Definite Integrals**

1. Given that is a constant and , show that there are two possible values for P, and find what they are.

**13E Finding Areas**

1. Find the area of the finite region between the curve with equationand the x-axis.

**13F Finding Areas Under the X-Axis**

1. Find the area of the finite region bounded by the curve and the x axis.
2. a) Sketch the curve with equation:

b) Find the area of the finite region bounded by the curve and the x-axis

**13G Finding Areas Between Curves**

Option 1:

Option 2:



The diagram shows a sketch of part of the curve with equation:

and the line:

Find the area of the region bounded by the curve and the line.

1. The diagram below shows a sketch of part of the curve with equation:

and the line:

Find the area of the shaded region OAC.

