Areas Under Curves

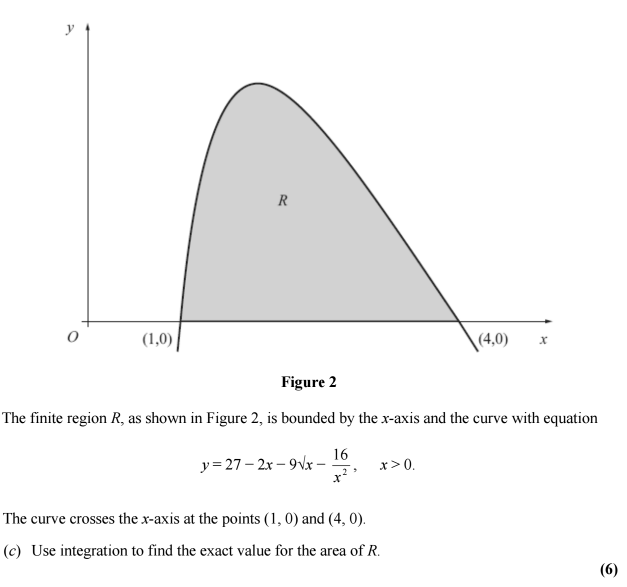
Consider our previous example . This definite integral gives the area bounded by the curve and the lines x = 1 and x = 5.

The definite integral gives the **area** between a positive curve , the **-axis**, and the lines and .

Example

Find the area of the finite region between the curve with equation and the -axis.

Test Your Understanding



Extension

*[MAT 2007 1H]* Given a function , you are told that

It follows that equals what?

*[MAT 2011 1G]*

A graph of the function is sketched on the axes below:

What is the value of ?

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