Definite Integral

The most useful use of integration is that **it finds the area under a graph**. Before we do this, we need to understand how to find a **definite integral**.

Examples

1.
2.
3. Given that is a constant and , show that there are two possible values for and find these values.

Extension

1. *[MAT 2009 1A]* The smallest value of

as varies, is what?

1. *[MAT 2015 1D]* Let

 and

Let . Which of the following statements are true?

1. is always bigger than
2. is always bigger than
3. They are always equal.
4. is bigger if , and is bigger if .
5. is bigger if , and is bigger if .

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