

Chapter 11 / Example 12

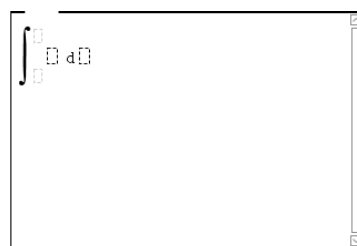
Definite integrals

Find the area of the region bounded by the curve $y = 3x^2 + \frac{2}{\sqrt{x}}$ the x-axis and the lines $x=1$ and $x=4$.

Open a new document and add a new Calculator page.

Press $\left[\frac{\square}{\square}\right]$ and select $\int_a^b dx$ with the trackpad.

The template shows places for the limits, the function and the variable that you are integrating with respect to.



Enter the lower limit 1 and using the upper limit 4.

Enter the function $3x^2 + \frac{2}{\sqrt{x}}$ using the fraction template $\left[\frac{\square}{\square}\right]$ ($\left[\frac{\square}{\square}\right]$).

Use $\leftarrow \rightarrow \blacktriangle \blacktriangledown$ to navigate around the template.

Type x.

Press $\left[\text{enter}\right]$.

$$\int_1^4 3x^2 + \frac{2}{\sqrt{x}} dx = 67$$

