

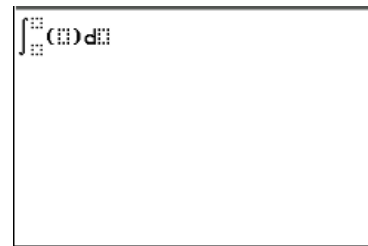
Chapter 11 / Example 12

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 $x=4$.

To enter the integral template press **[ALPHA]** **[F2]** 4:fnInt(.

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:

[ALPHA] **[F1]** 1:n/d.

Use **[←]** **[→]** **[↑]** **[↓]** to navigate around the template.

Type X.

Press **[ENTER]**.

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

