

Helpful Business Calculus Features on the TI-83/84

Approximating the derivative for a given x -value

What is $f'(2)$ if $f(x) = 3x^4 - 5x$?

To compute the approximate value of this derivative on the TI-83/84, press **MATH** and then **8**. Next enter this key sequence:

nDeriv(3x^4 - 5x, x, 2)

The approximate answer should be close to the exact answer of 91.

Approximating the definite integral

What is $\int_1^2 3x^2 dx$?

To compute the approximate value of this definite integral on the TI-83/84, press **MATH** and then **9**. Next enter this key sequence:

fnInt(3x^2, x, 1, 2)

The approximate answer should be close to the exact answer of 7.

Computing values for a time-value-money problem (e.g. annuity, sinking fund, etc.)

Use the TVM calculator on your TI-83/84 to compute the monthly payment, future value, or other features of a time-value-money problem. To access the TVM calculator, press **APPS** and then **1** followed by **1** again.