SECTION 6.3: TAYLOR AND MACLAURIN SERIES (A FIRST LOOK)

(1) Definitions

If f(x) has derivatives of all orders at x = a, then the **Taylor series** for f(x) at x = a is

The Taylor series where a = 0, is called the **Maclaurin series**:

(2) Find the Taylor series for $y = \ln(x)$ at x = 1.