My First Assignment

Gentle Steps Towards Programming in Mathematica

<my name> <date>

■ Introduction

In this notebook we practice how to write text, enter formulas, format the layout and appearance of a notebook, and also perform a few programming examples.

■ Formula Examples

Formulas can appear within a text, as for example: $\frac{1}{2}\sqrt{\frac{x}{\sin(x)}}$. One can enter these formulas using the built-in palettes or by keyboard shortcuts, as e.g., $\boxed{80}$ inf $\boxed{80}$, which prints as the infinity symbol $\boxed{90}$.

■ Practicing how to enter formulas in text

Here are a few more examples of formulas.

Note: Put each formula into a separate Text Cell starting with a \square and a Filled Square (\blacksquare). Start entering formulas by typing: \square 9 (that is, hold down the \square -key and the 9-key).

- $\blacksquare \qquad (a) \qquad \int x^n \, dx$
- $\blacksquare \qquad \text{(b)} \qquad \int \operatorname{Exp}(a\,x^2)\,dx$
- $\blacksquare \qquad \text{(c)} \qquad \int E^{ay^2} \, dy$
- $\bullet \qquad (e) \qquad \cos\left(\frac{1+\sqrt{1-x}}{1-\sqrt{1-x}}\right)$
- $\blacksquare \qquad (f) \qquad 4x^3 + 3x^2 + 2x + 1 = 0$