## MTH 141 Fall 2009 Maple Assignment 1

The first Maple assignment is getting you started with Maple. Start a new Maple worksheet and do the following steps. All answers should be produced with the help of Maple commands. Precede each answer with a comment in *text mode*.

- 1. In text mode, type your name, section, name of your instructor, due date for the assignment.
- 2. In Math mode, enter the polynomial

$$x^4 - 4x^3 - 3x^2 + 14x + 12$$

and assign it to a symbol, say p;

- 3. Factor the polynomial p.
- 4. Find the zeros of the polynomial p by solving an equation. Give the zeros in exact form and in decimal form.
- 5. In text mode, compare the answers in parts 3 and 4,explain how one could get the answer to part 4 from the answer to part 3.
  - 6. Plot the polynomial p over the interval  $-3 \le x \le 4$ . Look up Maple's *help* and label the axes as x and y.
  - 7. Comment on the answer in step 4 in connection with the plot.