Section 006 of Calculus Lab 2, Name (clearly printed): _____
Quiz of January 21, 2002
11:00-11:15 a.m. ID #: _____

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1. Without using palettes, clearly print MATHEMATICA input commands for:

(a) the definition of $f(x) = (2x^5 + 3x^2 + 5)\, sin(x)$ (without any restriction); and for

(b) the graph of f(x) over the interval $-3.2 \leq x \leq 3.2$.

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2. The graph of the function $g(x) = x^3 - 15\,x^2 + 71\,x - 104$ crosses the x-axis at three points x_1, x_2, and x_3 that are respectively within one unit of 3, 5, and 7. Without using palettes, clearly print MATHEMATICA-Input statements whose evaluation yields x_1, x_2, and x_3 with at least four-digit accuracy.

(End of Quiz)