

Section 006 of Calculus Lab 2,
Quiz of February 4, 2003
11:00-11:15 a.m.

Name (clearly printed): _____

ID #: _____

1. Carefully print MATHEMATICA input commands whose evaluation yields a graph of

$$\frac{x^2}{144} - \frac{y^2}{25} = 1.$$

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2. Carefully print MATHEMATICA Input statements based on Newton's Method as explained in pages 83–85 of our textbook to numerically approximate the solution of

$$\cos x = \sqrt{x}$$

based on $x = .5$ as the initial guess. (Do not use the preferable **FindRoot** procedure.)

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3. Carefully print MATHEMATICA Input for the expression

$$expr = 2u^5 + 3u^4v + u^3v^2 + 4v^5$$

and then carefully print MATHEMATICA Input whose evaluation will replace u in $expr$ with s^3t^4 and replace v in $expr$ with s^2t^5 .

(End of Quiz)