Practice Problems 5 - Math 141, Frank Thorne (thornef@mailbox.sc.edu)

Any of these problems that might appear on a quiz, assessment, or the final exam. You will be expected to show your work, write in complete sentences, and explain your reasoning clearly.

(a) Thomas, 3.7, 9-45.

(b) Thomas, 3.8, 11-96.

(c) Sketch graphs of the six inverse trigonometric functions $\sin^{-1}(x)$, $\cos^{-1}(x)$, $\tan^{-1}(x)$, $\cot^{-1}(x)$, $\sec^{-1}(x)$, and $\csc^{-1}(x)$. State their domains and ranges, and compute their derviatives.

(d) Thomas, 3.9, 1-8, 21-34.