Practice Problems 4 - Math 141, Frank Thorne (thornef@mailbox.sc.edu)

(a) Thomas, Ch. 3.8, 11-96.

(b) Sketch graphs of the six inverse trigonometric functions $\arcsin(x)$, $\arccos(x)$, $\arctan(x)$, $\text{arccot}(x)$, $\text{arcsec}(x)$, and $\text{arccsc}(x)$. State their domains and ranges, and compute their derivatives.

   When computing their derivatives, explain your reasoning and please **DRAW AN APPRO-PRIATE TRIANGLE.**

(c) Thomas, Ch. 3.9, 1-8, 21-34.