1) Be prepared for logarithmic differentiation
   (pg. 329, notes 6, prob. 6.1-31)

2) DANGER! Although $x^a$, $a^x$ and $x^x$ look similar,
   the derivative rule for each is quite different
   (prob. 6.4-27)

3) Understand the relationship between inverse
   trigonometric functions and triangles (notes 33, pg. 369, prob. 6.8-19)

4) Be prepared for derivatives of inverse
   trigonometric functions (pg. 369, notes 38 prob. 6.8-53).

5) Be prepared to reproduce each step of the
   inverse function handout (notes 9, prob.
   6.2-23, prob. 6.2-37)

6) Be prepared to solve a differential
equation graphically, using a slope field (handout, notes 30).

7) Be prepared to solve a linear, first order differential equation, using an integrating factor (notes 27, pg. 355, prob. 6.6-13)