- 1. Solve the differential equation $\sqrt{1-x^2}$ y'=xy
 - (a) What type of question is this? What sub-type (if any)?
 - (b) Can you draw a picture to help you solve this problem?
 - (c) Are there any formulas to help you? If so, what are they?
 - (d) What steps would you take to solve this question? What about a general question of this sub-type?

(e) Did you ever *reduce* the original question to a question from a different sub-type? If so, what was it?