Section 15.4 Worksheet:

a. What are the transformations that take Cartesian coordinates into polar coordinates, and *vice versa*? Why is one direction more complicated?

b. You are expressly warned by our author about one thing in this section: what?

c. What is funny about the name **polar rectangle**?

d. Why **on Earth** would we want to complicate our lives with polar integrals? In what situations is it worth our while?