- 1. Find the surface area of the portion of $z = x^2 + y^2$ between $x = 4 y^2$ and x = 1. Using Maple to evaluate the integral is ok.
- 2. Find the surface area of the portion of $z=x^2+y^2$ inside the cylinder $x^2+y^2=16$ by hand.

Hint: First set up the double integral that gives the surface area, then convert to polar coordinates.