SOLIDS OF REVOLUTION

1. Let R be the region enclosed between the curves $y = 2x^2$ and $x = \frac{1}{4}y^2$. Note that there is no need to evaluate any integrals in this problem (unless you run out of other things to do).

    a) Sketch the region R.

    b) Find a dx integral and a dy integral for the volume of the solid obtained by rotating R about the x-axis.

    c) Find a dx integral and a dy integral for the volume of the solid obtained by rotating R about the y-axis.