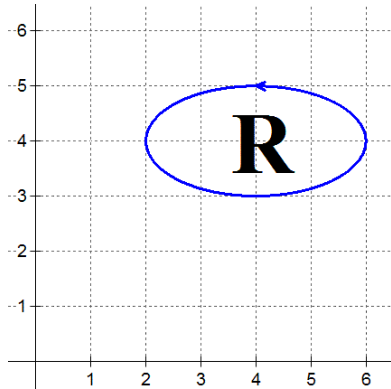


# Example Technology Exercise 15

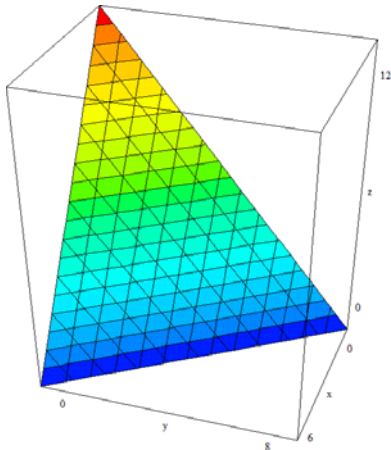
*James Jones*

1. Problem 15.4.16



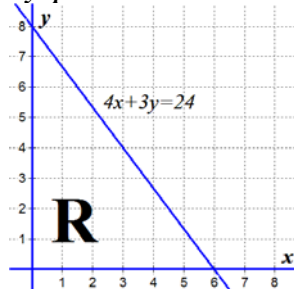
2. See Maxima file.

3.  $\iint_{\sigma} \sqrt{x^2 + y^2 + z^2} dS$ .  $\sigma$  is portion of  $4x + 3y + 2z = 24$  in the first octant.

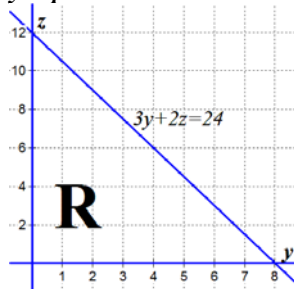


The following graphs aren't required, but they are useful and you should make them by hand if you're not making them with the computer.

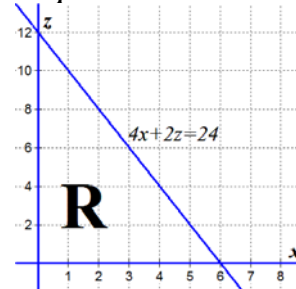
*xy-plane*



*yz-plane*



*xz-plane*



4. Problem 15.7.13

