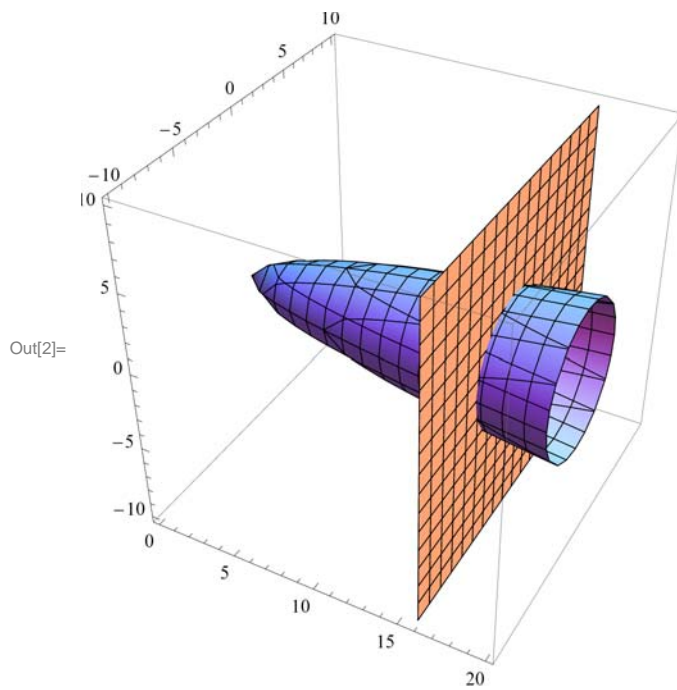
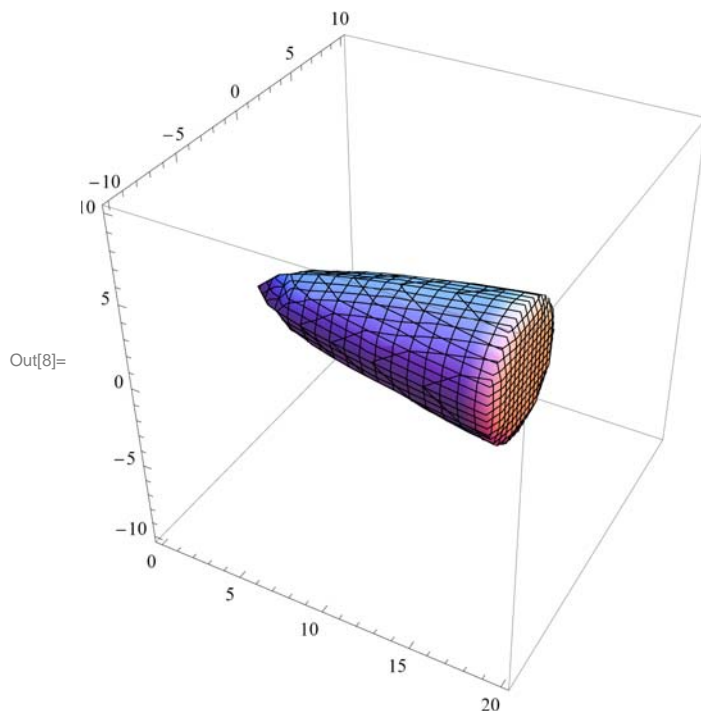


In[2]:= **ContourPlot3D**[ $\{x == y^2 + z^2, x == 16\}$ ,  $\{x, 0, 20\}$ ,  $\{y, -10, 10\}$ ,  $\{z, -10, 10\}$ ]



In[8]:= **RegionPlot3D**[ $x > y^2 + z^2 \ \&\& \ x < 16$ ,  $\{x, 0, 20\}$ ,  $\{y, -10, 10\}$ ,  $\{z, -10, 10\}$ ]



In[9]:= **Integrate**[**Boole**[ $x > y^2 + z^2 \ \&\& \ x < 16$ ],  $\{x, 0, 20\}$ ,  $\{y, -10, 10\}$ ,  $\{z, -10, 10\}$ ]

Out[9]=  $128 \pi$