**Notes/Examples**

**Working Backwards: Surface Area & Volume of**

**Cylinders, Cones, and Spheres**

1. Given the cylinder below, 2. The volume of a cylinder is 54$π$ ft3 and
find the height. V = 11083.5 ft3 the height is 3 ft. Find the diameter of the

 Cylinder.

3. A cone has a radius of 6m and a surface area of 66π m2. Find the slant height of the cone.

4. The cone below has a volume of 242π m3. Find the height.



5. A sphere has a SA of 676$π$ cm2, find the radius.

6. A sphere has a volume of 4500$π $m3, find the radius.

7. A sphere has a volume of 7776$π $in3, find the diameter.