## MATH 191 FUNDAMENTALS OF MATHEMATICS II 13.3 VOLUMES OF SOLID SHAPES MARCH 21, 2014

## Volume of Prisms and Cylinders

The volume formula for prisms and cylinders is

| gives rise to a _ |  | in each layer. There |
|-------------------|--|----------------------|
| is                | for each   |                      |
|                   | nen we measure the height for oblique prism, NOT |                      |
| Other Volume Fo   |  |                      |
| The volume f      | formula for pyramids and cones is                |                      |
| The volume f      | formula for a sphere with radius $r$ units is    |                      |

## Volume vs. Surface Area

1. By describing what surface area and volume each measure for a solid shape, explain why these are different.