**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**April 9th, 2013**

**AP Calculus 1, Mrs. Sulkes**

**7.2 Volume of Known Geometrical Cross Sections**

General Formulas:

1. For cross sections of area A(x) perpendicular to x-axis:
2. For cross sections of area A(y) perpendicular to y-axis:

Practice:

1. If a solid has square cross sections perpendicular to x-axis and has a base bounded by , what is volume of solid?
2. Find volume of a solid that has semicircle cross sections perpendicular to x-axis whose base is bounded by graphs of  and .
3. The base of a solid is bounded by , , and . Find the volume of the solid that has equilateral triangle cross sections perpendicular to .