**Disk Method** is



**Shell Method** is



**The volume of solid** is

**The width of each disk** is dx and the face of the disk is a circle with area

The radius of the disk is r = f(x)^2

**Total Volume** is

**Arc Length** is

**Arc Length Alt** is

**Mass Slice** is

Mass Slice = Density slice \* Width Slice

Mass is measured in grams / cm

Density slice = 0.11x \* 0.28

**Work** is

**Force** is

**Presure** is

P\*G\*Depth