1. Describe the solid that is formed by rotating each of these figures about line m and sketch it.
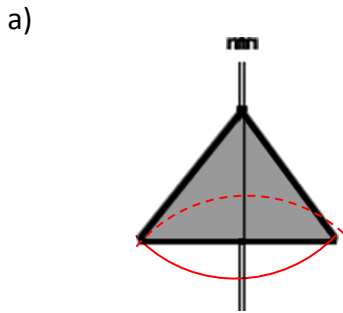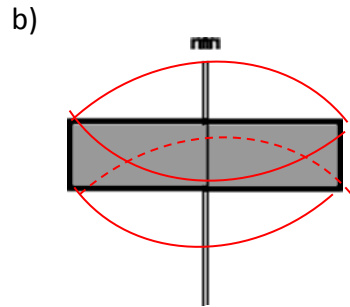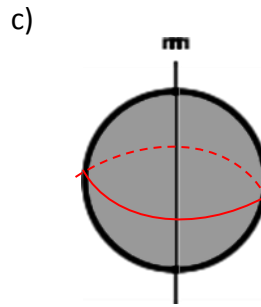
a)

b)

c)

d)

Name/Description	**Name/Description**	**Name/Description**	**Name/Description**
Cone	Cylinder	Sphere	Donut (?)

e)

f)

g)

h)

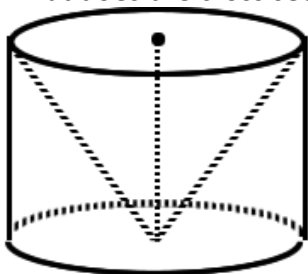| **Name/Description**	**Name/Description**	**Name/Description**	**Name/Description**
Cylinder with a cylinder removed	Sphere with empty center	Cylinder with a cone on top	Cone with a cone removed
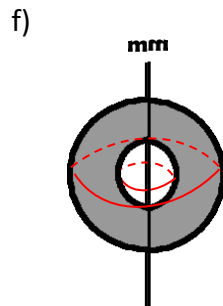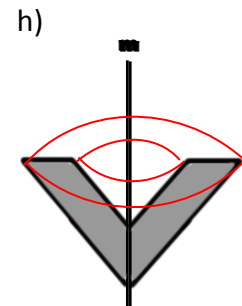
2. Determine the rotational cross section

a) A cylinder has a cone subtracted from its volume. What does the cross section look like?
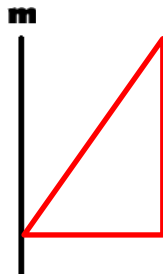
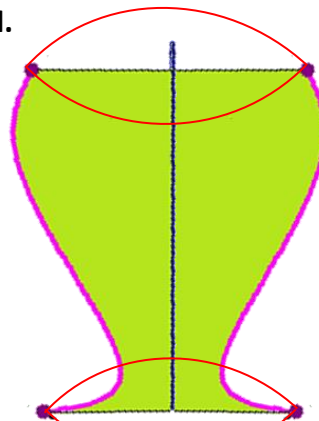b) A hemisphere on a cylinder. What does the cross section look like?
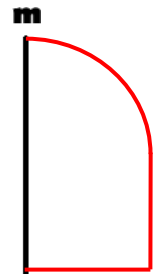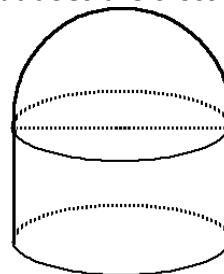
3. A potter creates pots and bowls using a pottery wheel. The wheel spins and the potter shapes the clay. From these three pictures, create the rotational cross section.

a)

b)

c)
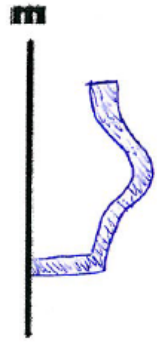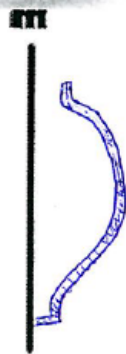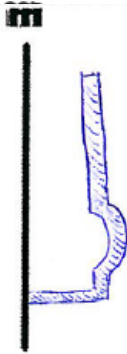
4. a) Use the rotational cross section to sketch the solid.

SKETCH OF SOLID

b) Use the rotational cross section to sketch the solid.

SKETCH OF SOLID