

7. Molly and Nikki are working on the following problem:

A wedge is cut out of circular cylinder of radius 4 by two planes. One plane is perpendicular to the axis of the cylinder. The other intersects the first at an angle of 30° along a diameter of the cylinder. Find the volume of the wedge

- (a) Molly wants to think of the wedge as a solid of cross sections to find the volume. Explain if Molly's method will work.
- (b) Nikki wants to think of the wedge as a solid of revolution to find the volume. Explain if Nikki's method will work.
- (c) Find the volume of the wedge.

