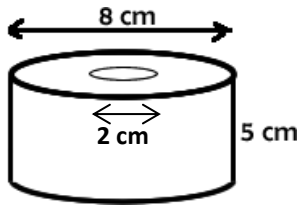
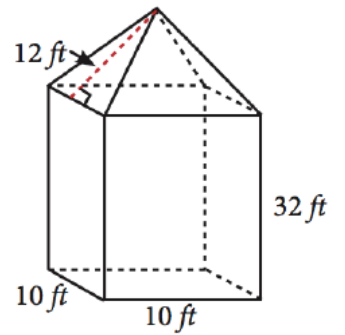


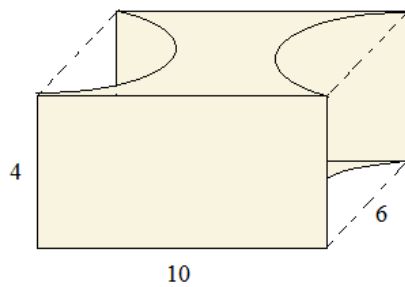
1. Determine the volume of the solid in terms of π .



2. Find the volume of the composite solid, to the nearest tenth.



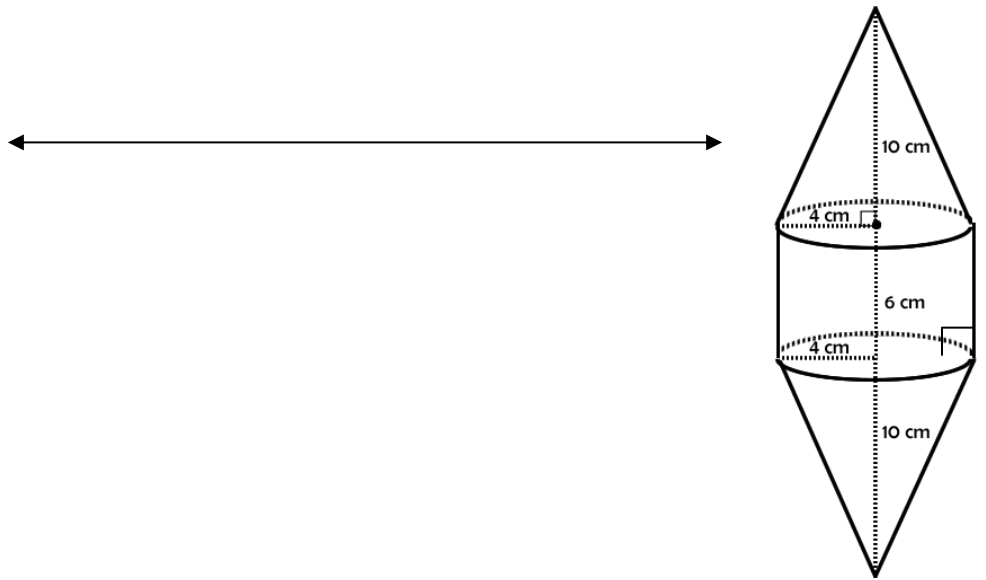
3. Find the volume of the composite solid in terms of π .



4. Given the right composite solid,

a. Draw the 2-D figure that could be rotated about the axis to create the composite solid:

b. Find the total volume, in terms of π .



This was part of a 6-point Regents question!!

5. A Dixie cup is a truncated (cut off) cone with base diameters of 88 mm and 57 mm. In order to find the height of just the cup, the sides of the cup have been extended to locate the vertex of the cone. The height of the whole cone is 380 mm.

a. Why can you use similar triangles in this situation (what criteria is satisfied and why)?

b. Determine the height of just the cup, y , to the nearest tenth.

