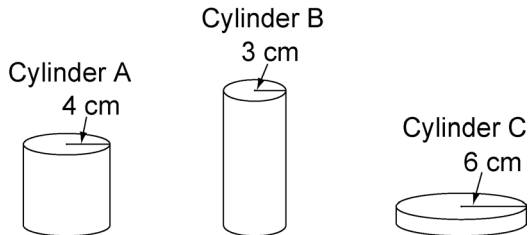


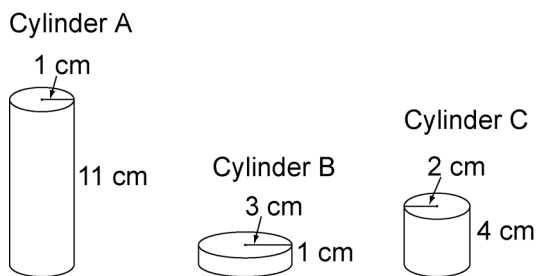
Practice: Maximize the Volume of a Cylinder

For all questions, round your answer to the nearest tenth of a unit when necessary.

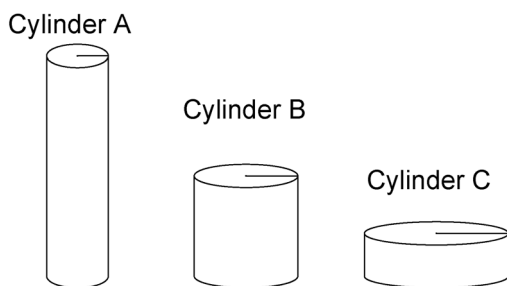
1. Each cylinder has surface area 302 cm^2 .



2. Each cylinder has surface area 75.4 cm^2 . Order the cylinders from greatest to least volume.



3. Each cylinder has the same surface area. Order the cylinders from greatest to least volume.



4. Find the radius and height of the cylinder with maximum volume, given the surface area.

- a) 250 cm^2 b) 500 cm^2
c) 40 cm^2 d) 475 cm^2
e) 750 cm^2 f) 1000 cm^2