

10-3 Three dimensional objects

- _____ 1. What is the total surface area of a cylinder with a radius of 3 inches and a height of 6 inches?
- _____ 2. What is the volume of a sphere that has a radius of 6 cm?
- _____ 3. What is the volume of a pyramid that has a height of 10 cm and a square base with each side being 5 cm in length?
- _____ 4. How much volume is left in a 10 cm cube if a 9 cm cube is placed inside the 9 cm cube?
- _____ 5. How much volume is left inside a 6 cm sphere if a 3 cm sphere is placed inside the 6 cm sphere?

11-1 Circles

1. Consider the circle $(x - 4)^2 + (y - 2)^2 = 25$ Center = _____ Radius = _____
2. Consider the circle $x^2 + (y - 2)^2 = 4$ Center = _____ Radius = _____
3. Consider the circle $(x + 1)^2 + (y - 3)^2 = 64$ Center = _____ Radius = _____

Give the equation of the circle that has the given center and given radius.

4. Center = (2, 5) Radius = 3 Equation = _____
5. Center = (-1, 2) Radius = 4 Equation = _____