
Lunes, Moons, & Balloons

1. Let circle C have radius of 5 units.
 - a. What is the circumference of the circle?
 - b. What is the area of the circle?
2. If a circle has an area of $150\pi \text{ u}^2$, what is the diameter of the circle?
3. If a circle's radius is tripled, how much has its area increased?
4. Let sphere S have a radius of 5 units.
 - a. What is the surface area of S ?
 - b. What is the volume of S ?
5. A hemisphere has a radius of 10 units.
 - a. Find the surface area of the hemisphere without the base.
 - b. Find the surface area of the hemisphere with the base.