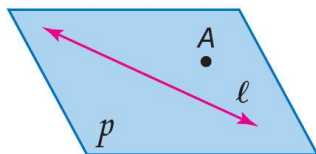


Activity 36 – Key Concepts

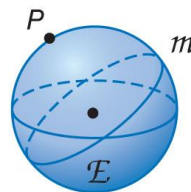
KeyConcept Lines in Plane and Spherical Geometry

Plane Euclidean Geometry



Plane \mathcal{P} contains line ℓ and point A not on line ℓ .

Spherical Geometry



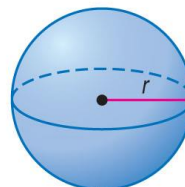
Sphere \mathcal{E} contains great circle m and point P not on m . Great circle m is a line on sphere \mathcal{E} .

KeyConcept Surface Area of a Sphere

Words The surface area S of a sphere is $S = 4\pi r^2$, where r is the radius.

Symbols $S = 4\pi r^2$

Model



KeyConcept Volume of a Sphere

Words The volume V of a sphere is $V = \frac{4}{3}\pi r^3$, where r is the radius of the sphere.

Symbols $V = \frac{4}{3}\pi r^3$

Model

