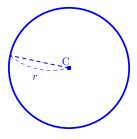
중심과 반지름이 주어졌을 때 원과 구의 벡터방정식 (Vector Equations of Circles and Spheres given the Center and Radius)



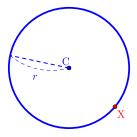


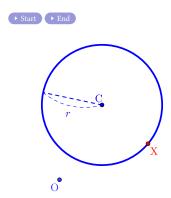




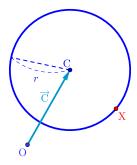




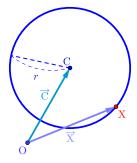




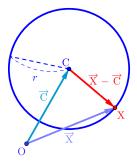




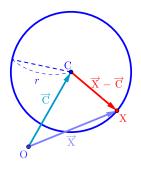






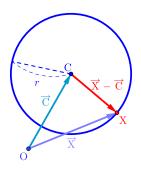






$$\left| \overrightarrow{\mathbf{X}} - \overrightarrow{\mathbf{C}} \right| = r$$

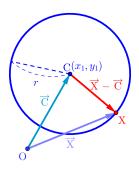




$$\left| \overrightarrow{\mathbf{X}} - \overrightarrow{\mathbf{C}} \right| = r$$

$$(\overrightarrow{X} - \overrightarrow{C}) \cdot (\overrightarrow{X} - \overrightarrow{C}) = r^2$$

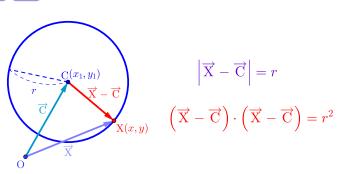




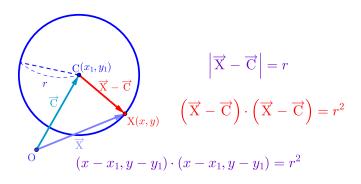
$$\left|\overrightarrow{\mathbf{X}} - \overrightarrow{\mathbf{C}}\right| = r$$

$$(\overrightarrow{X} - \overrightarrow{C}) \cdot (\overrightarrow{X} - \overrightarrow{C}) = r^2$$

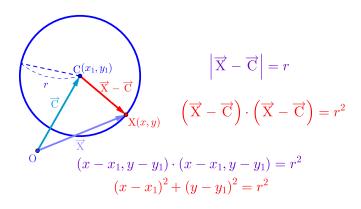




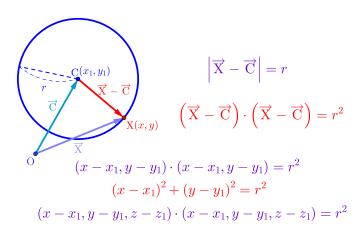




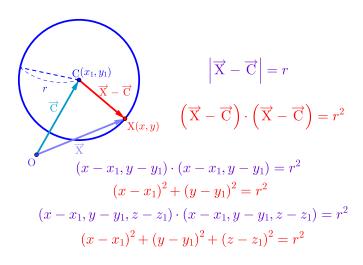












Github:

https://min7014.github.io/math20221102001.html

Click or paste URL into the URL search bar, and you can see a picture moving.