Euclidean geometry of space

Canonical name	EuclideanGeometryOfSpace
Date of creation	2013-03-22 17:32:00
Last modified on	2013-03-22 17:32:00
Owner	pahio (2872)
Last modified by	pahio (2872)
Numerical id	18
Author	pahio (2872)
Entry type	Topic
Classification	msc 51-01
Synonym	space geometry
Related topic	EuclideanGeometryOfThePlane
Related topic	AnalyticGeometry

Please help to list the existing and future entries on spatial geometry!

Basic objects

1. point

2. line, ray, line segment

3. plane

4. normal plane

5. dihedral angle

6. cylinder

7. cone

8. truncated cone

9. polyhedron

10. cuboid

11. sphere

12. parts of a ball

13. great circle

14. surface

15. solid angle

16. Plato's mathematics

Basic concepts and quantities

1. http://planetmath.org/Congruencecongruence

2. similarity in geometry

3. distance of non-parallel lines

4. angle between two lines

5. angle between line and plane

6. normal of plane

7. parallelism of line and plane

8. parallelism of two planes

9. angle between two planes

10. perpendicular planes

11. area of a spherical triangle

12. area of spherical zone

13. volume of spherical cap and spherical sector

14. volume of solid of revolution

15. Gaussian curvature

16. mean curvature at surface point

17. curvature (space curve)

18. Torricelli's trumpet

Analytic geometry

1. coordinate way

2. direction cosines

3. equation of plane

4. line in space

5. quadratic surfaces

6. tangent plane of quadratic surface

7. generatrices of one-sheeted hyperboloid

8. generatrices of hyperbolic paraboloid

9. ruled surface

10. developable surface

11. surface of revolution

12. torus

13. conic section