

LIST OF FUNCTIONS

Note : All variables of all the functions are taken as "double". So, if you declare any variable as single,integer,long etc. It might generate error.

Sr.No.	Name of Function	Use	When to use	Function
1	diam	Calculation of diameter when radius is known	When you want to convert radius into diameter	diam(value of radius)
2	radius	Calculation of radius when diameter is known	When you want to convert diameter into radius	radius(value of diameter)
3	aocirr	Calculation of area of a circle using radius	Calculation of area of circle when radius of circle is known.	aocirr(value of radius)
4	aocird	Calculation of area of circle using diameter	Calculation of area of circle when diameter is known	aocird(value of diameter)
5	cocirr	Calculation of circumference of circle using radius	Calculation of circumference of circle when radius is known	cocirr(value of radius)
6	aocirc	Calculation of area of circle using value of circumference	Calculation of area of circle by using value of circumference of circle.	aocirc(value of circumference)
7	cocird	Calculation of circumference of circle using diameter	Calculation of circumference of circle when diameter is known.	cocird(value of diameter)
8	cocira	Calculation of circumference of circle using area of circle	Calculation of circumference of circle using value of area of circle.	cocira(value of area of circle)
9	arcocirrad	Calculation of area of arc of a circle (angle in radians)	Calculation of area of arc of a circle when radius and angle in radians are known	arcocirrad(radius,angle in radians)
10	arcocirdeg	Calculation of area of arc of a circle(angle in degrees)	Calculation of arc of a circle when radius and angle in degrees are known	arcocirdeg(radius,angle in degrees)

11	segocir	Calculation of area of segment of a circle	Calculation of area of segment of circle using radius of circle and length of the arc of circle.	segocir(radius,length of the arc)
12	secocirrad	Calculation of area of sector of a circle(angle in radians)	Calculation of area of sector of circle when radius and angle in radians are known	secocirrad(radius,angle in radians)
13	secocirdeg	Calculation of area of sector of a circle (angle in degrees)	Calculation of area of sector of circle when radius and angle in degrees are known.	secocirdeg(radius,angle in degrees)
14	secocirar	Calculation of area of sector of a circle using length of arc	Calculation of area of sector of circle when radius and length of arc of circle are known.	secocirar(radius,length of arc)
15	thetaocirar	Calculation of angle(in radians) of sector of circle	Calculation of angle(in radians) when radius and length of arc of circle are known.	thetaocirar(radius,length of arc)
16	rccyv	Calculation of Volume of right circular cylinder.	Calculation of Volume when radius and height of the right circular cylinder are known.	rccyv(radius,height)
17	rccyts	Calculation of total surface Area of right circular cylinder	Calculation of total surface area when radius and height of the right circular cylinder are known.	rccyts(radius,height)
18	cone v	Calculation of volume of right circular cone	Calculation of volume of right circular cone when radius and height of the cone are known.	cone v(radius,height)
19	sphere v	Calculation of volume of a sphere	Calculation of volume of a sphere using radius of the	sphere v(radius)

			sphere.	
20	sqa	Calculation of area of a square	Calculation of area of square using length of side of square	sqa(side)
21	recta	Calculation of area of a rectangle	Calculation of area of rectangle using length and breadth of the rectangle.	recta(length,breadth)
22	cubev	Calculation of volume of a cube	Calculation of volume of cube using length of a side of the cube	cubev(side)

How to use example

Let take function no. 1 in above table.

diam(value of radius) :- Calculation of diameter when radius is known.

Suppose radius is 15 and you want to calculate the diameter.

so, the syntax will be just as below:-

diam(15)

simply put the radius inside the brackets.

All functions(118) which are available in original .dll library are:-

1. Square

- Area of Square.
- Perimeter of Square.
- Semiperimeter of Square.
- Radius of Circumscribed Circle.
- Radius of Inscribed Circle.

2. Rectangle

- Area of rectangle.
- Perimeter of rectangle.

- Semiperimeter of rectangle.
- Length of diagonals of a rectangle.
- Radius of Circumscribed circle.
- Radius of Inscribed circle.

3. Parallelogram

- Area of Parallelogram.
- Perimeter of Parallelogram.
- SemiPerimeter of Parallelogram
- Length of diagonals of Parallelogram.
- Length of altitudes.

4. Rhombus

- Area of Rhombus.
- Perimeter of Rhombus.
- Semi-Perimeter of Rhombus.
- Length of diagonals.
- Length of altitudes.

5. Trapezoid or Trapezium

- Area of Trapezium.
- Perimeter of Trapezium.
- Semi-Perimeter of Trapezium.
- Length of Diagonal.
- Length of altitude.

6. Kite

- Area of Kite.
- Perimeter of Kite.
- Semi-Perimeter of Kite.
- Length of Diagonals.
- Length of altitude.

7. Cyclic Quadrilateral

- Area of Cyclic Quadrilateral.
- Perimeter of Cyclic Quadrilateral.
- Semi-Perimeter of Cyclic Quadrilateral.
- Length of diagonals.
- Radius of Circumscribed circle.

8. Cyclic Inscriptable

- Area of Cyclic Inscriptable.
- Perimeter of Cyclic Inscriptable.
- Semi-Perimeter of Cyclic Inscriptable.
- Radius of Circumscribed circle.
- Radius of Inscribed circle.

9. Equilateral triangle

- Area of triangle.
- Perimeter of triangle.
- Semi-Perimeter of triangle.
- Length of altitude.
- Radius of Circumscribed circle.
- Radius of Inscribed circle.

10. Isoceles triangle

- Area of triangle.
- Perimeter of triangle.
- Semi-Perimeter of triangle.
- Length of altitude.
- Radius of Circumscribed circle.
- Radius of Inscribed circle.

11. Right triangle

- Area of triangle.
- Perimeter of triangle.
- Semi-Perimeter of triangle.
- Length of altitude.
- Radius of Circumscribed circle.
- Radius of Inscribed circle.

12. Scalene triangle

- Area of triangle.
- Perimeter of triangle.
- Semi-Perimeter of triangle.
- Length of altitude.
- Radius of Circumscribed circle.
- Radius of Inscribed circle.

13. Circle

- Area of Circle.
- Perimeter of Circle.

- Circumference of circle.

14. Arc of Circle

- Length of Arc when angle available in radian.
- Length of Arc when angle available in degree.

15. Segment of Circle

- Area of segment.
- Central angle.

16. Sector of Circle

- Area of sector.
- Length of arc.

17. Cylinder

- Volume of Cylinder.
- Total Surface area of cylinder.
- Lateral Surface area of cylinder.

18. Cone

- Volume of cone.
- Total surface area of cone.
- Lateral surface area of cone.
- Slant height of cone.
- Area of base of cone.
- Area of frustum of cone.
- Total surface area of frustum of cone.
- Lateral surface area of frustum of cone.
- Slant height of frustum of cone.

19. Sphere

- Volume of sphere.
- Surface area of sphere.
- Volume of sector of sphere.
- Surface area of sector of sphere.
- Volume of spherical cap.
- Surface area of spherical cap.
- Volume of segment of sphere.
- Surface area of segment of sphere.
- Volume of lune of sphere.

- Surface area of lune of sphere.

20. Pyramid

- Volume of pyramid.
- Total surface area of pyramid.
- Lateral surface area of pyramid.
- Volume of frustum of pyramid.
- Lateral surface area of pyramid.

21. Rectangular Parallelepiped

- Volume of rectangular parallelepiped.
- Total surface area of rectangular parallelepiped.
- Diagonal of rectangular parallelepiped.
- Face diagonal of rectangular parallelepiped.

22. Prism

- Volume of prism.
- Lateral surface area of prism.

23. Cube

- Volume of cube.
- Total surface area of cube.
- Length of diagonal.
- Length of face diagonal.
- Radius of circumscribed and inscribed sphere for cube.

24. Ellipse

- Area of ellipse.
- Circumference of ellipse.
- Eccentricity of ellipse.

25. Polygon

- Area and perimeter of pentagon.
- Area and perimeter of hexagon.
- Area and perimeter of octagon.
- Area and perimeter of decagon.
- Area and perimeter of dodecagon.

26. Polyhedron

- **Volume of tetrahedron,octahedron,dodecahedron,icosahedron.**
- **Surface area of tetrahedron,octahedron,dodecahedron,icosahedron.**
- **Radius of circumscribed sphere for tetrahedron,octahedron,dodecahedron,icosahedron.**
- **Radius of inscribed sphere for tetrahedron,octahedron,dodecahedron,icosahedron.**

27. Parabola

- **Area of Parabola.**
- **Chord length of parabola.**
- **Height of parabola.**

28. Others

- **Volume and surface area of ellipsoid.**
- **Volume and surface area of ring torus.**