*Module “mymath”*

*areaoftriangle(b,h): b is the base and h is height of the triangle*

*areaofrectangle(l,b):l is the length and b is the breadth*

*areaofcircle(r): r is the area of the circle*

*areaofparalleogram(b,h): b is the base and h is the height*

*areaoftrapezium(a,b,h): a and b are length of parallel sides*

*areaofellipse(a,b): a is ½ minor axis and b is ½ major axis*

*areaofcube(a):a is length of the edge*

*areaofrectangularprism(l,w,h):l is length ,w is width,h is height*

*areaofcylinder(r,h):r is radius of circular base and h is height of the cylinder*

*areaofcone(r,l): r is radius of circular base and l is slant height*

*areaofsphere(r):r is radius of sphere*

*areaofhemisphere(r):r is radius of hemisphere*

*areaofsector(r,α):r is the radius and α is the angle in radians*

*areaofsemicircle(r): r is the area of the semicircle*

*areaofcuboid(l,b,h):l is length,b is breadth and h is height*

***note:curvedsurfacearea is same as lateralsurfacearea***

*lateralsurfaceareaofcube(a): a is length of the edge*

*lateralsurfaceareaofcuboid(l,b,h): l is length,b is breadth and h is height*

*lateralsurfaceareaofsphere(r): r is radius of sphere*

*lateralsurfaceareaofhemisphere(r): r is radius of hemisphere*

*lateralsurfaceareaofcylinder(r,h): r is radius of circular base and h is height of the cylinder*

*lateralsurfaceareaofcone(r,l): r is radius of circular base and l is slant height*

*areaofrhombus(b,h):l is length of any side and h is height of the rhombus*

*volumeofcuboid(l,b,h): l is length,b is breadth and h is height*

*volumeofcube(a): a is length of the edge*

*volumeofcylinder(r,h): r is radius of circular base and h is height of the cylinder*

*volumeofprism(b,h):b is the base area and h is the height*

*volumeofsphere(r): r is radius of sphere*

*areaofpyramid(p,l,b):p is the perimeter of the base,l is the slant height and b is the base area*

*lateralsurfaceareaofpyramid(p,l): p is the perimeter of the base,l is the slant height*

*areaofprism(p,h,b): p is the perimeter of the base,l is the slant height,h is the height*

*lateralsurfaceareaofprism(p,h): p is the perimeter of the base,h is the height*

*volumeofpyramid(b,h): b is the base of pyramid and h is the height*

*volumeofcone(r,h): r is radius of circular base and h is slant height*

*volumeofrectangularpyramid(l,b,h):l is the length,b is the base and w is the width*

*volumeofellipsoid(a,b,c):a,b,c are the lengths of the semimajor axis a,b,c*

*areaofellipsoid(a,b,c): a,b,c are the lengths of the semimajor axis a,b,c*

*volumeoftetrahedron(a): a is the edge*

*areaoftetrahedron(a): a is the edge*

*perimeterofsquare(a): a is the edge*

*perimeterofparallelogram(b,h): b is the base and h is the height*

*perimeteroftriangle(a,b,c):a ,b,c are the sides of the triangle*

*perimeteroftrapezoid(a,b,c,d):a,b,c,d are the sides of the trapezoid*

*perimeterofrhombus(a):a is the side of rhombus*

*perimeterofrectangle(l,b):l is the length and b is the breadth*

*semiperimeteroftriangle(a,b,c):a,b,c are the sides of the triangle*

*circumferenceofcircle(r):r is the radius of the circle*

*areabetweenparabolaandline(a,m):*

*area between the parabola y2=4ax and the line y=mx*

*where a is the avalue in parabola and m is the slope of the line*

*areabetweentwoparabolas(a,b):*

*area between the parabola y2=4ax and y2=4bx*

*areabetweenparabolaandlatusrectum(a):*

*area between the parabola y2=4ax and its latus rectum*

*areabetweenarchofsinax(a):area* of sin(ax) from zero to 180 is 2

*areabetweenarchofcosax(a): ):area* of cos(ax) from zero to 180 is 2

*areaofsphericalsector(r,h,a):where r is radius ,h is the height of the cap,a is the area of the cap*

*volumeofsphericalsector(r,h): r is radius ,h is the height of the cap*

lateralsurfaceareaofsphericalsector(r,h): *r is radius ,h is the height of the cap*

*areaofcapsule(r,a):where r is the radius and a is the sidelength*

*volumeofcapsule(r,a): where r is the radius and a is the sidelength*

*areaoftube(r1,r2):where r1 is inner radius and r2 is outer radius(r1>r2)*

*volumeoftube(r1,r2,h): r1 is inner radius and r2 is outer radius and h is height(r1>r2)*

*areaoftorus(r1,r2):r1 is mojor radius and r2 is minor radius*

*volumeoftorus(r1,r2): r1 is major radius and r2 is minor radius*

*volumeofhollowcylinder(R,r,h):where R is the outer radius,r is the inner radius and h is the height*

*areaofhollowcylinder(R,r,h): where R is the outer radius,r is the inner radius and h is the height*

*lateralsurfaceareaofhollowcylinder(R,r,h): where R is the outer radius,r is the inner radius and h is the height*

***for hollowsphere lateralsurface area is same as curved surface area***

*areaofhollowsphere(R,r):where R is the outer radius and r is the inner radius(R>r)*

*volumeofhollowsphere(R,r): where R is the outer radius and r is the inner radius(R>r)*