

Important Cardioid Formulas PDF



Formulas
Examples
with Units

List of 12
Important Cardioid Formulas

1) Area of Cardioid Formulas ↻

1.1) Area of Cardioid Formula ↻

Formula

$$A = \frac{3}{2} \cdot \pi \cdot D^2$$

Example with Units

$$471.2389 \text{ m}^2 = \frac{3}{2} \cdot 3.1416 \cdot 10 \text{ m}^2$$

Evaluate Formula ↻

1.2) Area of Cardioid given Perimeter Formula ↻

Formula

$$A = \frac{3}{128} \cdot \pi \cdot P^2$$

Example with Units

$$471.2389 \text{ m}^2 = \frac{3}{128} \cdot 3.1416 \cdot 80 \text{ m}^2$$

Evaluate Formula ↻

1.3) Area of Cardioid given Radius of Circle Formula ↻

Formula

$$A = 6 \cdot \pi \cdot r^2$$

Example with Units

$$471.2389 \text{ m}^2 = 6 \cdot 3.1416 \cdot 5 \text{ m}^2$$

Evaluate Formula ↻

2) Diameter of Circle of Cardioid Formulas ↻

2.1) Diameter of Circle of Cardioid Formula ↻

Formula

$$D = 2 \cdot r$$

Example with Units

$$10 \text{ m} = 2 \cdot 5 \text{ m}$$

Evaluate Formula ↻

2.2) Diameter of Circle of Cardioid given Area Formula ↻

Formula

$$D = \sqrt{\frac{A}{\frac{3}{2} \cdot \pi}}$$

Example with Units

$$10.3006 \text{ m} = \sqrt{\frac{500 \text{ m}^2}{\frac{3}{2} \cdot 3.1416}}$$

Evaluate Formula ↻

2.3) Diameter of Circle of Cardioid given Perimeter Formula ↻

Formula

$$D = \frac{P}{8}$$

Example with Units

$$10 \text{ m} = \frac{80 \text{ m}}{8}$$

Evaluate Formula ↻



3) Perimeter of Cardioid Formulas

3.1) Perimeter of Cardioid Formula

Formula

$$P = 8 \cdot D$$

Example with Units

$$80\text{ m} = 8 \cdot 10\text{ m}$$

Evaluate Formula 

3.2) Perimeter of Cardioid given Area Formula

Formula

$$P = 8 \cdot \sqrt{\frac{A}{\frac{3}{2} \cdot \pi}}$$

Example with Units

$$82.4052\text{ m} = 8 \cdot \sqrt{\frac{500\text{ m}^2}{\frac{3}{2} \cdot 3.1416}}$$

Evaluate Formula 

3.3) Perimeter of Cardioid given Radius of Circle Formula

Formula

$$P = 16 \cdot r$$

Example with Units

$$80\text{ m} = 16 \cdot 5\text{ m}$$

Evaluate Formula 

4) Radius of Circle of Cardioid Formulas

4.1) Radius of Circle of Cardioid Formula

Formula

$$r = \frac{D}{2}$$

Example with Units

$$5\text{ m} = \frac{10\text{ m}}{2}$$

Evaluate Formula 

4.2) Radius of Circle of Cardioid given Area Formula

Formula

$$r = \sqrt{\frac{A}{6 \cdot \pi}}$$

Example with Units

$$5.1503\text{ m} = \sqrt{\frac{500\text{ m}^2}{6 \cdot 3.1416}}$$

Evaluate Formula 

4.3) Radius of Circle of Cardioid given Perimeter Formula

Formula

$$r = \frac{P}{16}$$

Example with Units

$$5\text{ m} = \frac{80\text{ m}}{16}$$



Evaluate Formula 



Variables used in list of Cardioid Formulas above

- **A** Area of Cardioid (Square Meter)
- **D** Diameter of Circle of Cardioid (Meter)
- **P** Perimeter of Cardioid (Meter)
- **r** Radius of Circle of Cardioid (Meter)


Constants, Functions, Measurements used in list of Cardioid Formulas above

- **constant(s):** π ,
3.14159265358979323846264338327950288
Archimedes' constant
- **Functions:** **sqrt**, sqrt(Number)
A square root function is a function that takes a non-negative number as an input and returns the square root of the given input number.
- **Measurement: Length** in Meter (m)
Length Unit Conversion 
- **Measurement: Area** in Square Meter (m²)
Area Unit Conversion 



- [Important Annulus Formulas](#) 
- [Important Antiparallelogram Formulas](#) 
- [Important Arrow Hexagon Formulas](#) 
- [Important Astroid Formulas](#) 
- [Important Bulge Formulas](#) 
- [Important Cardioid Formulas](#) 
- [Important Circular Arc Quadrangle Formulas](#) 
- [Important Concave Pentagon Formulas](#) 
- [Important Concave Regular Hexagon Formulas](#) 
- [Important Concave Regular Pentagon Formulas](#) 
- [Important Crossed Rectangle Formulas](#) 
- [Important Cut Rectangle Formulas](#) 
- [Important Cyclic Quadrilateral Formulas](#) 
- [Important Cycloid Formulas](#) 
- [Important Decagon Formulas](#) 
- [Important Dodecagon Formulas](#) 
- [Important Double Cycloid Formulas](#) 
- [Important Fourstar Formulas](#) 
- [Important Frame Formulas](#) 
- [Important Grid Formulas](#) 
- [Important H Shape Formulas](#) 
- [Important Half Yin-Yang Formulas](#) 
- [Important Heart Shape Formulas](#) 
- [Important Hendecagon Formulas](#) 
- [Important Heptagon Formulas](#) 
- [Important Hexadecagon Formulas](#) 
- [Important Hexagon Formulas](#) 
- [Important Hexagram Formulas](#) 
- [Important House Shape Formulas](#) 
- [Important Hyperbola Formulas](#) 
- [Important Hypocycloid Formulas](#) 
- [Important Isosceles Trapezoid Formulas](#) 
- [Important L Shape Formulas](#) 
- [Important Line Formulas](#) 
- [Important N-gon Formulas](#) 
- [Important Nonagon Formulas](#) 
- [Important Octagon Formulas](#) 
- [Important Octagram Formulas](#) 
- [Important Open Frame Formulas](#) 
- [Important Parallelogram Formulas](#) 
- [Important Pentagon Formulas](#) 
- [Important Pentagram Formulas](#) 
- [Important Polygram Formulas](#) 
- [Important Quadrilateral Formulas](#) 
- [Important Quarter Circle Formulas](#) 
- [Important Rectangle Formulas](#) 
- [Important Rectangular Hexagon Formulas](#) 
- [Important Regular Polygon Formulas](#) 
- [Important Reuleaux Triangle Formulas](#) 
- [Important Rhombus Formulas](#) 
- [Important Right Trapezoid Formulas](#) 
- [Important Round Corner Formulas](#) 
- [Important Salinon Formulas](#) 
- [Important Semicircle Formulas](#) 
- [Important Sharp Kink Formulas](#) 



- [Important Square Formulas](#) 
- [Important Star of Lakshmi Formulas](#) 
- [Important T Shape Formulas](#) 
- [Important Tangential Quadrilateral Formulas](#) 
- [Important Trapezoid Formulas](#) 
- [Important Tri-equilateral Trapezoid Formulas](#) 
- [Important Truncated Square Formulas](#) 
- [Important Unicursal Hexagram Formulas](#) 
- [Important X Shape Formulas](#) 

Try our Unique Visual Calculators

-  [Percentage of number](#) 
-  [LCM calculator](#) 
-  [Simple fraction](#) 

Please SHARE this PDF with someone who needs it!

This PDF can be downloaded in these languages

[English](#) [Spanish](#) [French](#) [German](#) [Russian](#) [Italian](#) [Portuguese](#) [Polish](#) [Dutch](#)

7/8/2024 | 11:48:13 AM UTC

