Cardioid Formulas... 1/9





# **Cardioid Formulas**

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#### **List of 12 Cardioid Formulas**

## Cardioid

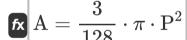
#### Area of Cardioid

#### 1) Area of Cardioid

$$\mathbf{f}\mathbf{x} = rac{3}{2} \cdot \pi \cdot \mathrm{D}^2$$

 $471.2389 \mathrm{m}^2 = rac{3}{2} \cdot \pi \cdot (10 \mathrm{m})^2$ 

## 2) Area of Cardioid given Perimeter 🖸



 $\mathbf{ex} \left[ 471.2389 \mathrm{m}^2 = \frac{3}{128} \cdot \pi \cdot (80 \mathrm{m})^2 \right]$ 

## 3) Area of Cardioid given Radius of Circle

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

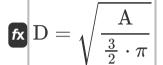


## Diameter of Circle of Cardioid

- 4) Diameter of Circle of Cardioid
- fx  $D=2\cdot r$

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- $|\mathbf{ex}| 10 \mathrm{m} = 2 \cdot 5 \mathrm{m}$
- 5) Diameter of Circle of Cardioid given Area



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- ex  $10.30065 \mathrm{m} = \sqrt{rac{500 \mathrm{m}^2}{rac{3}{2} \cdot \pi}}$
- 6) Diameter of Circle of Cardioid given Perimeter
- $D = \frac{P}{8}$

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



## Perimeter of Cardioid

- 7) Perimeter of Cardioid
- fx  $P = 8 \cdot D$

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- $80m = 8 \cdot 10m$
- 8) Perimeter of Cardioid given Area
- $\mathbf{F} = 8 \cdot \sqrt{rac{\mathrm{A}}{rac{3}{2} \cdot \pi}}$
- ex  $82.40516 \mathrm{m} = 8 \cdot \sqrt{\frac{500 \mathrm{m}^2}{\frac{3}{2} \cdot \pi}}$
- 9) Perimeter of Cardioid given Radius of Circle
- fx  $P=16\cdot r$
- $80 \mathrm{m} = 16 \cdot 5 \mathrm{m}$

## Radius of Circle of Cardioid 🚰

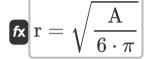
## 10) Radius of Circle of Cardioid 🖸

$$\mathbf{f} \mathbf{x} = rac{\mathrm{D}}{2}$$

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

## 11) Radius of Circle of Cardioid given Area



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ex 
$$5.150323 \mathrm{m} = \sqrt{\frac{500 \mathrm{m}^2}{6 \cdot \pi}}$$

## 12) Radius of Circle of Cardioid given Perimeter

$$\mathbf{f} \mathbf{x} = \frac{P}{16}$$

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



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#### **Variables Used**

- 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)





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## Constants, Functions, Measurements used

Constant: pi, 3.14159265358979323846264338327950288
 Archimedes' constant

- Function: sqrt, sqrt(Number) Square root function
- Measurement: Length in Meter (m)

  Length Unit Conversion
- Measurement: Area in Square Meter (m²)

  Area Unit Conversion





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#### **Check other formula lists**

- Annulus Formulas
- Antiparallelogram Formulas
- Arrow Hexagon Formulas
- Astroid Formulas
- Bulge Formulas
- Cardioid Formulas
- Circular Arc Quadrangle
   Formulas
- Concave Pentagon Formulas
- Concave Quadrilateral
   Formulas
- Concave Regular Hexagon
   Formulas
- Concave Regular Pentagon
   Formulas
- Crossed Rectangle Formulas
- Cut Rectangle Formulas
- Cyclic Quadrilateral Formulas
- Cycloid Formulas
- Decagon Formulas
- Dodecagon Formulas
- Double Cycloid Formulas
- Fourstar Formulas
- Frame Formulas
- Golden Rectangle Formulas 🗗
- Grid Formulas
- H Shape Formulas

- Half Yin-Yang Formulas
- Heart Shape Formulas
- Hendecagon Formulas
- Heptagon Formulas
- Hexadecagon Formulas
- Hexagon Formulas
- Hexagram Formulas 💪
- House Shape Formulas
- Hyperbola Formulas
- Hypocycloid Formulas
- Isosceles Trapezoid Formulas
- Koch Curve Formulas
- L Shape Formulas
- Line Formulas
- Lune Formulas
- N-gon Formulas
- Nonagon Formulas
- Octagon Formulas
- Octagram Formulas
- Open Frame Formulas
- Parallelogram Formulas
- Pentagon Formulas
- Pentagram Formulas
- Polygram Formulas
- Quadrilateral Formulas
- Quarter Circle Formulas
- Rectangle Formulas





- Rectangular Hexagon Formulas
- Regular Polygon Formulas G
- Reuleaux Triangle Formulas
- Rhombus Formulas
- Right Trapezoid Formulas
- Round Corner Formulas
- Salinon Formulas
- Semicircle Formulas
- Sharp Kink Formulas
- Square Formulas

- Star of Lakshmi Formulas
- Stretched Hexagon Formulas
- T Shape Formulas
- Tangential Quadrilateral Formulas
- Trapezoid Formulas
- Tricorn Formulas
- Tri-equilateral Trapezoid
   Formulas
- Truncated Square Formulas
- Unicursal Hexagram Formulas
- X Shape Formulas

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