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# Cardioid Formulas

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# List of 12 Cardioid Formulas

## Cardioid

## Area of Cardioid

### 1) Area of Cardioid

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

[Open Calculator !\[\]\(de95854c7ee024cfadc48187bbb781b2\_img.jpg\)](#)

$$\text{ex } 471.2389\text{m}^2 = \frac{3}{2} \cdot \pi \cdot (10\text{m})^2$$

### 2) Area of Cardioid given Perimeter

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

[Open Calculator !\[\]\(6a9b39b98eb945faa14c645ec99e4eaa\_img.jpg\)](#)

$$\text{ex } 471.2389\text{m}^2 = \frac{3}{128} \cdot \pi \cdot (80\text{m})^2$$

### 3) Area of Cardioid given Radius of Circle

$$\text{fx } A = 6 \cdot \pi \cdot r^2$$

[Open Calculator !\[\]\(f1c5da15572e3e09d343161be98f508d\_img.jpg\)](#)

$$\text{ex } 471.2389\text{m}^2 = 6 \cdot \pi \cdot (5\text{m})^2$$



## Diameter of Circle of Cardioid

### 4) Diameter of Circle of Cardioid

$$\text{fx } D = 2 \cdot r$$

[Open Calculator !\[\]\(a03a7eb2f4046e1d3c76772003e549ea\_img.jpg\)](#)

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

### 5) Diameter of Circle of Cardioid given Area

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

[Open Calculator !\[\]\(5361750c22c4e047a52f4eac1ec2d4cc\_img.jpg\)](#)

$$\text{ex } 10.30065\text{m} = \sqrt{\frac{500\text{m}^2}{\frac{3}{2} \cdot \pi}}$$

### 6) Diameter of Circle of Cardioid given Perimeter

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

[Open Calculator !\[\]\(b792654f2cef9719eabeb6c5be00811e\_img.jpg\)](#)

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



## Perimeter of Cardioid

### 7) Perimeter of Cardioid

$$\text{fx } P = 8 \cdot D$$

[Open Calculator !\[\]\(23d9fc146e83b5c3013cfa32c784f8d5\_img.jpg\)](#)

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

### 8) Perimeter of Cardioid given Area

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

[Open Calculator !\[\]\(aa53ad6fea213b8b2226d3077e30533a\_img.jpg\)](#)

$$\text{ex } 82.40516\text{m} = 8 \cdot \sqrt{\frac{500\text{m}^2}{\frac{3}{2} \cdot \pi}}$$

### 9) Perimeter of Cardioid given Radius of Circle

$$\text{fx } P = 16 \cdot r$$

[Open Calculator !\[\]\(626ce8ac21792b9405bfddfea8e0c96a\_img.jpg\)](#)

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



## Radius of Circle of Cardioid

### 10) Radius of Circle of Cardioid

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

[Open Calculator !\[\]\(74d4806277d7e73349d8e8c0897931e9\_img.jpg\)](#)

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

### 11) Radius of Circle of Cardioid given Area

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

[Open Calculator !\[\]\(8bba887393ca45b761e5cb49e755e762\_img.jpg\)](#)

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

### 12) Radius of Circle of Cardioid given Perimeter

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

[Open Calculator !\[\]\(0fb13ad0bfa3d86868cdd3883e5665b3\_img.jpg\)](#)

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





## 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*)



## 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 (m<sup>2</sup>)  
*Area Unit Conversion* 















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