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# Quarter Circle Formulas

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# List of 30 Quarter Circle Formulas

## Quarter Circle 🔗

## Arc Length of Quarter Circle 🔗

### 1) Arc Length of Quarter Circle 🔗

**Open Calculator** 🔗

**fx** $l_{Arc} = \dfrac{\pi \cdot r}{2}$

**ex** $7.853982m = \dfrac{\pi \cdot 5m}{2}$

### 2) Arc Length of Quarter Circle given Area 🔗

**Open Calculator** 🔗

**fx** $l_{Arc} = \sqrt{\pi \cdot A}$

**ex** $7.926655m = \sqrt{\pi \cdot 20m^2}$

### 3) Arc Length of Quarter Circle given Chord Length 🔗

**Open Calculator** 🔗

**fx** $l_{Arc} = \dfrac{\pi \cdot l_{Chord}}{\sqrt{8}}$

**ex** $7.775045m = \dfrac{\pi \cdot 7m}{\sqrt{8}}$

## 4) Arc Length of Quarter Circle given Diameter ⎘

**Open Calculator** ⎘

$$fx \quad l_{Arc} = \frac{\pi \cdot D_{Circle}}{4}$$

$$ex \quad 7.853982m = \frac{\pi \cdot 10m}{4}$$

## 5) Arc Length of Quarter Circle given Perimeter ⎘

**Open Calculator** ⎘

$$fx \quad l_{Arc} = \frac{\pi \cdot P}{\pi + 4}$$

$$ex \quad 7.918215m = \frac{\pi \cdot 18m}{\pi + 4}$$

# Area of Quarter Circle ⎘

## 6) Area of Quarter Circle given Arc Length ⎘

**Open Calculator** ⎘

$$fx \quad A = \frac{l_{Arc}^2}{\pi}$$

$$ex \quad 20.37183m^2 = \frac{(8m)^2}{\pi}$$

## 7) Area of Quarter Circle given Chord Length 🔗

**Open Calculator** 🔗

$fx$ $$A = \frac{\pi \cdot l_{\text{Chord}}^2}{8}$$

$ex$ $$19.24226\text{m}^2 = \frac{\pi \cdot (7\text{m})^2}{8}$$

## 8) Area of Quarter Circle given Diameter of Circle 🔗

**Open Calculator** 🔗

$fx$ $$A = \frac{\pi \cdot D_{\text{Circle}}^2}{16}$$

$ex$ $$19.63495\text{m}^2 = \frac{\pi \cdot (10\text{m})^2}{16}$$

## 9) Area of Quarter Circle given Perimeter 🔗

**Open Calculator** 🔗

$fx$ $$A = \frac{\pi \cdot P^2}{(\pi + 4)^2}$$

$ex$ $$19.95744\text{m}^2 = \frac{\pi \cdot (18\text{m})^2}{(\pi + 4)^2}$$

## 10) Area of Quarter Circle given Radius ⬈

**Open Calculator** ⬈

$fx$ $A = \dfrac{\pi \cdot r^2}{4}$

$ex$ $19.63495 m^2 = \dfrac{\pi \cdot (5m)^2}{4}$

# Chord Length of Quarter circle ⬈

## 11) Chord Length of Quarter Circle ⬈

**Open Calculator** ⬈

$fx$ $l_{Chord} = r \cdot \sqrt{2}$

$ex$ $7.071068m = 5m \cdot \sqrt{2}$

## 12) Chord Length of Quarter Circle given Arc Length ⬈

**Open Calculator** ⬈

$fx$ $l_{Chord} = \dfrac{\sqrt{8} \cdot l_{Arc}}{\pi}$

$ex$ $7.202531m = \dfrac{\sqrt{8} \cdot 8m}{\pi}$

## 13) Chord Length of Quarter Circle given Area ⬈

**Open Calculator** ⬈

$fx$ $l_{Chord} = \sqrt{\dfrac{8 \cdot A}{\pi}}$

$ex$ $7.136496m = \sqrt{\dfrac{8 \cdot 20m^2}{\pi}}$

## 14) Chord Length of Quarter Circle given Diameter 

$$fx \quad l_{Chord} = \frac{D_{Circle}}{\sqrt{2}}$$

$$ex \quad 7.071068m = \frac{10m}{\sqrt{2}}$$

## 15) Chord Length of Quarter Circle given Perimeter 

$$fx \quad l_{Chord} = \frac{\sqrt{8} \cdot P}{\pi + 4}$$

$$ex \quad 7.128898m = \frac{\sqrt{8} \cdot 18m}{\pi + 4}$$

# Diameter of Quarter Circle 

## 16) Diameter of Quarter Circle 

$$fx \quad D_{Circle} = 2 \cdot r$$

$$ex \quad 10m = 2 \cdot 5m$$

## 17) Diameter of Quarter Circle given Arc Length 

$$fx \quad D_{Circle} = 4 \cdot \frac{l_{Arc}}{\pi}$$

$$ex \quad 10.18592m = 4 \cdot \frac{8m}{\pi}$$

## 18) Diameter of Quarter Circle given Area 

$fx$ $D_{Circle} = 2 \cdot \sqrt{4 \cdot \dfrac{A}{\pi}}$

$ex$ $10.09253m = 2 \cdot \sqrt{4 \cdot \dfrac{20m^2}{\pi}}$

## 19) Diameter of Quarter Circle given Chord Length 

$fx$ $D_{Circle} = l_{Chord} \cdot \sqrt{2}$

$ex$ $9.899495m = 7m \cdot \sqrt{2}$

## 20) Diameter of Quarter Circle given Perimeter 

$fx$ $D_{Circle} = \dfrac{4 \cdot P}{\pi + 4}$

$ex$ $10.08178m = \dfrac{4 \cdot 18m}{\pi + 4}$

# Perimeter of Quarter Circle 

## 21) Perimeter of Quarter Circle 

$fx$ $P = 2 \cdot r \cdot \left(1 + \dfrac{\pi}{4}\right)$

$ex$ $17.85398m = 2 \cdot 5m \cdot \left(1 + \dfrac{\pi}{4}\right)$

## 22) Perimeter of Quarter Circle given Arc Length ⎘

**Open Calculator** ⎘

$fx$ $P = \dfrac{(\pi + 4) \cdot l_{Arc}}{\pi}$

$ex$ $18.18592m = \dfrac{(\pi + 4) \cdot 8m}{\pi}$

## 23) Perimeter of Quarter Circle given Area ⎘

**Open Calculator** ⎘

$fx$ $P = (\pi + 4) \cdot \sqrt{\dfrac{A}{\pi}}$

$ex$ $18.01918m = (\pi + 4) \cdot \sqrt{\dfrac{20m^2}{\pi}}$

## 24) Perimeter of Quarter Circle given Chord Length ⎘

**Open Calculator** ⎘

$fx$ $P = \dfrac{(\pi + 4) \cdot l_{Chord}}{\sqrt{8}}$

$ex$ $17.67454m = \dfrac{(\pi + 4) \cdot 7m}{\sqrt{8}}$

## 25) Perimeter of Quarter Circle given Diameter of Circle ⎘

**Open Calculator** ⎘

$fx$ $P = D_{Circle} \cdot \left(1 + \dfrac{\pi}{4}\right)$

$ex$ $17.85398m = 10m \cdot \left(1 + \dfrac{\pi}{4}\right)$

# Radius of Quarter Circle 🔗

## 26) Radius of Quarter Circle given Arc Length 🔗

**fx** $r = 2 \cdot \dfrac{l_{Arc}}{\pi}$

**ex** $5.092958m = 2 \cdot \dfrac{8m}{\pi}$

## 27) Radius of Quarter Circle given Area 🔗

**fx** $r = \sqrt{4 \cdot \dfrac{A}{\pi}}$

**ex** $5.046265m = \sqrt{4 \cdot \dfrac{20m^2}{\pi}}$

## 28) Radius of Quarter Circle given Chord Length 🔗

**fx** $r = \dfrac{l_{Chord}}{\sqrt{2}}$

**ex** $4.949747m = \dfrac{7m}{\sqrt{2}}$

## 29) Radius of Quarter Circle given Diameter 🔗

**Open Calculator** 🔗

$fx$ $r = \dfrac{D_{Circle}}{2}$

$ex$ $5m = \dfrac{10m}{2}$

## 30) Radius of Quarter Circle given Perimeter 🔗

**Open Calculator** 🔗

$fx$ $r = \dfrac{2 \cdot P}{\pi + 4}$

$ex$ $5.040892m = \dfrac{2 \cdot 18m}{\pi + 4}$

# Variables Used

- **A** Area of Quarter Circle *(Square Meter)*
- **D$_{Circle}$** Diameter of Circle of Quarter Circle *(Meter)*
- **l$_{Arc}$** Arc Length of Quarter Circle *(Meter)*
- **l$_{Chord}$** Chord Length of Quarter Circle *(Meter)*
- **P** Perimeter of Quarter Circle *(Meter)*
- **r** Radius of Quarter Circle *(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 (m²)
  *Area Unit Conversion* 🔗

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