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Round Corner Formulas

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List of 24 Round Corner Formulas

Round Corner 🔗

Arc Length of Round Corner 🔗

1) Arc Length of Round Corner 🔗

Open Calculator 🔗

$$fx \quad l_{Arc} = \left(\frac{1}{2}\right) \cdot \pi \cdot r$$

$$ex \quad 15.70796m = \left(\frac{1}{2}\right) \cdot \pi \cdot 10m$$

2) Arc Length of Round Corner given Area 🔗

Open Calculator 🔗

$$fx \quad l_{Arc} = \left(\frac{1}{2}\right) \cdot \pi \cdot \left(\sqrt{\frac{A}{\left(\frac{1}{4}\right) \cdot \pi}}\right)$$

$$ex \quad 15.85331m = \left(\frac{1}{2}\right) \cdot \pi \cdot \left(\sqrt{\frac{80m^2}{\left(\frac{1}{4}\right) \cdot \pi}}\right)$$

3) Arc Length of Round Corner given Area of Missing Piece 📱

fx $l_{Arc} = \left(\dfrac{1}{2}\right) \cdot \pi \cdot \left(\sqrt{\dfrac{A_{Missing\ Piece}}{\left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right)}}\right)$

Open Calculator 📱

ex $15.16415m = \left(\dfrac{1}{2}\right) \cdot \pi \cdot \left(\sqrt{\dfrac{20m^2}{\left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right)}}\right)$

4) Arc Length of Round Corner given Perimeter 📱

fx $l_{Arc} = \left(\dfrac{1}{2}\right) \cdot \pi \cdot \left(\dfrac{P}{\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2}\right)$

Open Calculator 📱

ex $15.39653m = \left(\dfrac{1}{2}\right) \cdot \pi \cdot \left(\dfrac{35m}{\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2}\right)$

Area of Round Corner 📱

Area of Missing Piece of Round Corner 📱

5) Area of Missing Piece of Round Corner 📱

fx $A_{Missing\ Piece} = \left(1 - \left(\left(\dfrac{1}{4}\right) \cdot \pi\right)\right) \cdot \left(r^2\right)$

Open Calculator 📱

ex $21.46018m^2 = \left(1 - \left(\left(\dfrac{1}{4}\right) \cdot \pi\right)\right) \cdot \left((10m)^2\right)$

6) Area of Missing Piece of Round Corner given Arc Length ⎘

fx

$$A_{\text{Missing Piece}} = \left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right) \cdot \left(\left(\frac{l_{\text{Arc}}}{\left(\frac{1}{2}\right) \cdot \pi}\right)^2\right)$$

ex $19.56934\text{m}^2 = \left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right) \cdot \left(\left(\frac{15\text{m}}{\left(\frac{1}{2}\right) \cdot \pi}\right)^2\right)$

7) Area of Missing Piece of Round Corner given Area ⎘

fx

$$A_{\text{Missing Piece}} = \left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right) \cdot \left(\left(\frac{A}{\left(\frac{1}{4}\right) \cdot \pi}\right)\right)$$

ex $21.85916\text{m}^2 = \left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right) \cdot \left(\left(\frac{80\text{m}^2}{\left(\frac{1}{4}\right) \cdot \pi}\right)\right)$

8) Area of Missing Piece of Round Corner given Perimeter ⎘

fx

$$A_{\text{Missing Piece}} = \left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right) \cdot \left(\left(\frac{P}{\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2}\right)^2\right)$$

ex $20.61766\text{m}^2 = \left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right) \cdot \left(\left(\frac{35\text{m}}{\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2}\right)^2\right)$

Area of Round Corner

9) Area of Round Corner

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

Open Calculator

ex $78.53982\text{m}^2 = \left(\dfrac{1}{4}\right) \cdot \pi \cdot \left((10\text{m})^2\right)$

10) Area of Round Corner given Arc Length

fx $A = \left(\dfrac{1}{4}\right) \cdot \pi \cdot \left(\left(\dfrac{l_{\text{Arc}}}{\left(\frac{1}{2}\right) \cdot \pi}\right)^2\right)$

Open Calculator

ex $71.61972\text{m}^2 = \left(\dfrac{1}{4}\right) \cdot \pi \cdot \left(\left(\dfrac{15\text{m}}{\left(\frac{1}{2}\right) \cdot \pi}\right)^2\right)$

11) Area of Round Corner given Area of Missing Piece

fx $A = \left(\dfrac{1}{4}\right) \cdot \pi \cdot \left(\left(\dfrac{A_{\text{Missing Piece}}}{\left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right)}\right)\right)$

Open Calculator

ex $73.19585\text{m}^2 = \left(\dfrac{1}{4}\right) \cdot \pi \cdot \left(\left(\dfrac{20\text{m}^2}{\left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right)}\right)\right)$

12) Area of Round Corner given Perimeter

Open Calculator

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

ex $75.45635 \text{m}^2 = \left(\dfrac{1}{4}\right) \cdot \pi \cdot \left(\left(\dfrac{35\text{m}}{\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2}\right)^2\right)$

Edge Length of Round Corner

13) Edge Length of Round Corner given Arc Length

Open Calculator

fx $l_e = \dfrac{l_{\text{Arc}}}{\left(\frac{1}{2}\right) \cdot \pi}$

ex $9.549297\text{m} = \dfrac{15\text{m}}{\left(\frac{1}{2}\right) \cdot \pi}$

14) Edge Length of Round Corner given Area

Open Calculator

fx $l_e = \sqrt{\dfrac{A}{\left(\frac{1}{4}\right) \cdot \pi}}$

ex $10.09253\text{m} = \sqrt{\dfrac{80\text{m}^2}{\left(\frac{1}{4}\right) \cdot \pi}}$

15) Edge Length of Round Corner given Area of Missing Piece 🔗

Open Calculator 🔗

$$fx\ \ l_e = \sqrt{\frac{A_{\text{Missing Piece}}}{\left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right)}}$$

$$ex\ \ 9.6538\text{m} = \sqrt{\frac{20\text{m}^2}{\left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right)}}$$

16) Edge Length of Round Corner given Perimeter 🔗

Open Calculator 🔗

$$fx\ \ l_e = \frac{P}{\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2}$$

$$ex\ \ 9.801735\text{m} = \frac{35\text{m}}{\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2}$$

Perimeter of Round Corner 🔗

17) Perimeter of Round Corner 🔗

Open Calculator 🔗

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

$$ex\ \ 35.70796\text{m} = \left(\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2\right) \cdot 10\text{m}$$

18) Perimeter of Round Corner given Arc Length ⌘

Open Calculator ⌘

fx $P = \left(\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2\right) \cdot \left(\frac{l_{Arc}}{\left(\frac{1}{2}\right) \cdot \pi}\right)$

ex $34.09859m = \left(\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2\right) \cdot \left(\frac{15m}{\left(\frac{1}{2}\right) \cdot \pi}\right)$

19) Perimeter of Round Corner given Area ⌘

Open Calculator ⌘

fx $P = \left(\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2\right) \cdot \left(\sqrt{\frac{A}{\left(\frac{1}{4}\right) \cdot \pi}}\right)$

ex $36.03837m = \left(\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2\right) \cdot \left(\sqrt{\frac{80m^2}{\left(\frac{1}{4}\right) \cdot \pi}}\right)$

20) Perimeter of Round Corner given Area of Missing Piece ⌘

fx **Open Calculator** ⌘

$P = \left(\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2\right) \cdot \left(\sqrt{\frac{A_{Missing\ Piece}}{\left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right)}}\right)$

ex $34.47175m = \left(\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2\right) \cdot \left(\sqrt{\frac{20m^2}{\left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right)}}\right)$

Radius of Round Corner

21) Radius of Round Corner given Arc Length

Open Calculator

fx $r = \dfrac{l_{\text{Arc}}}{\left(\frac{1}{2}\right) \cdot \pi}$

ex $9.549297\text{m} = \dfrac{15\text{m}}{\left(\frac{1}{2}\right) \cdot \pi}$

22) Radius of Round Corner given Area

Open Calculator

fx $r = \sqrt{\dfrac{A}{\left(\frac{1}{4}\right) \cdot \pi}}$

ex $10.09253\text{m} = \sqrt{\dfrac{80\text{m}^2}{\left(\frac{1}{4}\right) \cdot \pi}}$

23) Radius of Round Corner given Area of Missing Piece

Open Calculator

fx $r = \sqrt{\dfrac{A_{\text{Missing Piece}}}{\left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right)}}$

ex $9.6538\text{m} = \sqrt{\dfrac{20\text{m}^2}{\left(1 - \left(\left(\frac{1}{4}\right) \cdot \pi\right)\right)}}$

24) Radius of Round Corner given Perimeter 🗗

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

ex $9.801735m = \dfrac{35m}{\left(\left(\frac{1}{2}\right) \cdot \pi\right) + 2}$

Variables Used

- **A** Area of Round Corner *(Square Meter)*
- **A$_{Missing\ Piece}$** Area of Missing Piece of Round Corner *(Square Meter)*
- **l$_{Arc}$** Arc Length of Round Corner *(Meter)*
- **l$_e$** Edge Length of Round Corner *(Meter)*
- **P** Perimeter of Round Corner *(Meter)*
- **r** Radius of Round Corner *(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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