

Important Round Corner Formulas PDF



Formulas Examples with Units

List of 7 Important Round Corner Formulas

1) Arc Length of Round Corner Formulas

1.1) Arc Length of Round Corner Formula

Formula

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

Example with Units

$$15.708_{\text{m}} = \left(\frac{1}{2}\right) \cdot 3.1416 \cdot 10_{\text{m}}$$

Evaluate Formula

2) Area of Round Corner Formulas

2.1) Area of Missing Piece of Round Corner Formulas

2.1.1) Area of Missing Piece of Round Corner Formula

Formula

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

Evaluate Formula

Example with Units

$$21.4602_{\text{m}^2} = \left(1 - \left(\left(\frac{1}{4}\right) \cdot 3.1416\right)\right) \cdot (10_{\text{m}}^2)$$

2.2) Area of Round Corner Formulas

2.2.1) Area of Round Corner Formula

Formula

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

Example with Units

$$78.5398_{\text{m}^2} = \left(\frac{1}{4}\right) \cdot 3.1416 \cdot (10_{\text{m}}^2)$$

Evaluate Formula

3) Edge Length of Round Corner Formulas

4) Perimeter of Round Corner Formulas

4.1) Perimeter of Round Corner Formula

Formula

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

Example with Units

$$35.708_{\text{m}} = \left(\left(\left(\frac{1}{2}\right) \cdot 3.1416\right) + 2\right) \cdot 10_{\text{m}}$$

Evaluate Formula



5) Radius of Round Corner Formulas

5.1) Radius of Round Corner given Arc Length Formula

Formula

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

Example with Units

$$9.5493 \text{ m} = \frac{15 \text{ m}}{\left(\frac{1}{2}\right) \cdot 3.1416}$$

Evaluate Formula 

5.2) Radius of Round Corner given Area Formula

Formula

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

Example with Units

$$10.0925 \text{ m} = \sqrt{\frac{80 \text{ m}^2}{\left(\frac{1}{4}\right) \cdot 3.1416}}$$

Evaluate Formula 

5.3) Radius of Round Corner given Perimeter Formula

Formula

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

Example with Units

$$9.8017 \text{ m} = \frac{35 \text{ m}}{\left(\left(\frac{1}{2}\right) \cdot 3.1416\right) + 2}$$

Evaluate Formula 



Variables used in list of Round Corner Formulas above

- **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)
- **P** Perimeter of Round Corner (Meter)
- **r** Radius of Round Corner (Meter)

Constants, Functions, Measurements used in list of Round Corner Formulas above

- **constant(s):** pi,
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 



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