

Important Reuleaux Triangle Formulas PDF



**Formulas
Examples
with Units**

List of 5 Important Reuleaux Triangle Formulas

1) Arc Length of Reuleaux Triangle Formulas

1.1) Arc Length of Reuleaux Triangle given Edge Length Formula

Formula

$$l_{\text{Arc}} = \frac{\pi \cdot l_e}{3}$$

Example with Units

$$10.472\text{m} = \frac{3.1416 \cdot 10\text{m}}{3}$$

Evaluate Formula

2) Area of Reuleaux Triangle Formulas

2.1) Area of Reuleaux Triangle given Edge Length Formula

Formula

$$A = \frac{(l_e^2) \cdot (\pi - (\sqrt{3}))}{2}$$

Example with Units

$$70.4771\text{m}^2 = \frac{(10\text{m}^2) \cdot (3.1416 - (\sqrt{3}))}{2}$$

Evaluate Formula

3) Perimeter of Reuleaux Triangle Formulas

3.1) Perimeter of Reuleaux Triangle given Edge Length Formula

Formula

$$P = \pi \cdot l_e$$

Example with Units

$$31.4159\text{m} = 3.1416 \cdot 10\text{m}$$

Evaluate Formula

4) Radius of Reuleaux Triangle Formulas

4.1) Radius of Reuleaux Triangle Formula

Formula

$$r = \frac{l_e}{1}$$

Example with Units

$$10\text{m} = \frac{10\text{m}}{1}$$

Evaluate Formula

5) Side Length of Reuleaux Triangle Formulas

5.1) Edge Length of Reuleaux Triangle Formula

Formula

$$l_e = \frac{r}{1}$$

Example with Units

$$10\text{m} = \frac{10\text{m}}{1}$$



Evaluate Formula



Variables used in list of Reuleaux Triangle Formulas above

- **A** Area of Reuleaux Triangle (Square Meter)
- **l_{Arc}** Arc Length of Reuleaux Triangle (Meter)
- **l_e** Edge Length of Reuleaux Triangle (Meter)
- **P** Perimeter of Reuleaux Triangle (Meter)
- **r** Radius of Reuleaux Triangle (Meter)



Constants, Functions, Measurements used in list of Reuleaux Triangle Formulas above

- **constant(s):** π ,
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 (m^2)
Area Unit Conversion 







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