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Reuleaux Triangle Formulas

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List of 20 Reuleaux Triangle Formulas

Reuleaux Triangle

Arc Length of Reuleaux Triangle

1) Arc Length of Reuleaux Triangle

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

Open Calculator 

ex
$$10.47198\text{m} = \frac{\pi \cdot 10\text{m}}{3}$$

2) Arc Length of Reuleaux Triangle given Area

fx
$$l_{\text{Arc}} = \frac{\pi \cdot \sqrt{\frac{2 \cdot A}{\pi - \sqrt{3}}}}{3}$$

Open Calculator 

ex
$$10.43647\text{m} = \frac{\pi \cdot \sqrt{\frac{2 \cdot 70\text{m}^2}{\pi - \sqrt{3}}}}{3}$$

3) Arc Length of Reuleaux Triangle given Edge Length

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

Open Calculator 

ex
$$10.47198\text{m} = \frac{\pi \cdot 10\text{m}}{3}$$



4) Arc Length of Reuleaux Triangle given Perimeter ↗

fx $l_{\text{Arc}} = \frac{P}{3}$

[Open Calculator ↗](#)

ex $10m = \frac{30m}{3}$

Area of Reuleaux Triangle ↗**5) Area of Reuleaux Triangle ↗**

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

[Open Calculator ↗](#)

ex $70.47709m^2 = (\pi - \sqrt{3}) \cdot \frac{(10m)^2}{2}$

6) Area of Reuleaux Triangle given Arc Length ↗

fx $A = \frac{(\pi - \sqrt{3}) \cdot \left(\frac{3 \cdot l_{\text{Arc}}}{\pi}\right)^2}{2}$

[Open Calculator ↗](#)

ex $77.76356m^2 = \frac{(\pi - \sqrt{3}) \cdot \left(\frac{3 \cdot 11m}{\pi}\right)^2}{2}$



7) Area of Reuleaux Triangle given Edge Length ↗

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

[Open Calculator ↗](#)

$$ex \quad 70.47709m^2 = \frac{((10m)^2) \cdot (\pi - (\sqrt{3}))}{2}$$

8) Area of Reuleaux Triangle given Perimeter ↗

$$fx \quad A = \frac{(\pi - \sqrt{3}) \cdot \left(\frac{P}{\pi}\right)^2}{2}$$

[Open Calculator ↗](#)

$$ex \quad 64.2674m^2 = \frac{(\pi - \sqrt{3}) \cdot \left(\frac{30m}{\pi}\right)^2}{2}$$

Perimeter of Reuleaux Triangle ↗

9) Perimeter of Reuleaux Triangle ↗

$$fx \quad P = r \cdot \pi$$

[Open Calculator ↗](#)

$$ex \quad 31.41593m = 10m \cdot \pi$$

10) Perimeter of Reuleaux Triangle given Arc Length ↗

$$fx \quad P = (3 \cdot l_{Arc})$$

[Open Calculator ↗](#)

$$ex \quad 33m = (3 \cdot 11m)$$



11) Perimeter of Reuleaux Triangle given Area

fx $P = \left(\sqrt{\frac{2 \cdot A}{\pi - \sqrt{3}}} \right) \cdot \pi$

[Open Calculator !\[\]\(e2376d476d06eb31946dc01a69a4403a_img.jpg\)](#)

ex $31.30941m = \left(\sqrt{\frac{2 \cdot 70m^2}{\pi - \sqrt{3}}} \right) \cdot \pi$

12) Perimeter of Reuleaux Triangle given Edge Length

fx $P = \pi \cdot l_e$

[Open Calculator !\[\]\(0b5e7e25e8775f7e7e80906ada4f0021_img.jpg\)](#)

ex $31.41593m = \pi \cdot 10m$

Radius of Reuleaux Triangle

13) Radius of Reuleaux Triangle

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

[Open Calculator !\[\]\(0fb13ad0bfa3d86868cdd3883e5665b3_img.jpg\)](#)

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

14) Radius of Reuleaux Triangle given Arc Length

fx $r = \frac{3 \cdot l_{Arc}}{\pi}$

[Open Calculator !\[\]\(e50091943b385fe16d3277389202856f_img.jpg\)](#)

ex $10.50423m = \frac{3 \cdot 11m}{\pi}$



15) Radius of Reuleaux Triangle given Area ↗**fx**

$$r = \sqrt{\frac{2 \cdot A}{\pi - \sqrt{3}}}$$

Open Calculator ↗**ex**

$$9.966095m = \sqrt{\frac{2 \cdot 70m^2}{\pi - \sqrt{3}}}$$

16) Radius of Reuleaux Triangle given Perimeter ↗**fx**

$$r = \frac{P}{\pi}$$

Open Calculator ↗**ex**

$$9.549297m = \frac{30m}{\pi}$$

Side Length of Reuleaux Triangle ↗**17) Edge Length of Reuleaux Triangle** ↗**fx**

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

Open Calculator ↗**ex**

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



18) Edge Length of Reuleaux Triangle given Arc Length ↗

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

[Open Calculator ↗](#)

$$ex \quad 10.50423m = \frac{3 \cdot 11m}{\pi}$$

19) Edge Length of Reuleaux Triangle given Area ↗

$$fx \quad l_e = \sqrt{\frac{2 \cdot A}{\pi - \sqrt{3}}}$$

[Open Calculator ↗](#)

$$ex \quad 9.966095m = \sqrt{\frac{2 \cdot 70m^2}{\pi - \sqrt{3}}}$$

20) Edge Length of Reuleaux Triangle given Perimeter ↗

$$fx \quad l_e = \frac{P}{\pi}$$

[Open Calculator ↗](#)

$$ex \quad 9.549297m = \frac{30m}{\pi}$$



Variables Used

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