

# Important Formulas of Snub Dodecahedron PDF



**Formulas  
Examples  
with Units**

## List of 11 Important Formulas of Snub Dodecahedron

### 1) Circumsphere Radius of Snub Dodecahedron Formula

Evaluate Formula

Formula	Example with Units
$r_c = \frac{\sqrt{\frac{2 \cdot 0.94315125924}{1 - 0.94315125924}}}{2} \cdot l_e$	$21.5584 \text{ m} = \frac{\sqrt{\frac{2 \cdot 0.94315125924}{1 - 0.94315125924}}}{2} \cdot 10 \text{ m}$

### 2) Edge Length of Snub Dodecahedron given Circumsphere Radius Formula

Evaluate Formula

Formula	Example with Units
$l_e = \frac{2 \cdot r_c}{\sqrt{\frac{2 \cdot 0.94315125924}{1 - 0.94315125924}}}$	$10.2049 \text{ m} = \frac{2 \cdot 22 \text{ m}}{\sqrt{\frac{2 \cdot 0.94315125924}{1 - 0.94315125924}}}$

### 3) Edge Length of Snub Dodecahedron given Volume Formula

Evaluate Formula

Formula
$l_e = \frac{V \cdot 6 \cdot \left( 3 \cdot \left( \left( \frac{[\text{phi}]}{2} + \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} - \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right)^2 \right)^{\frac{3}{2}}}{\left( (12 \cdot ((3 \cdot [\text{phi}] + 1)) \cdot \left( \left( \left( \frac{[\text{phi}]}{2} + \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} - \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right)^2 \right) \cdot \left( ((36 \cdot [\text{phi}] + 7) \cdot \left( \left( \frac{[\text{phi}]}{2} + \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} - \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right) \right) \right) \cdot \left( \left( \left( \frac{[\text{phi}]}{2} + \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} - \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right)^2 \right)^{\frac{3}{2}} \right)}$

Example with Units

$10.0339 \text{ m} = \frac{38000 \text{ m}^3 \cdot 6 \cdot \left( 3 \cdot \left( \left( \frac{1.618}{2} + \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} - \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right)^2 \right)^{\frac{3}{2}}}{\left( (12 \cdot ((3 \cdot 1.618) + 1)) \cdot \left( \left( \left( \frac{1.618}{2} + \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} - \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right)^2 \right) \cdot \left( ((36 \cdot 1.618) + 7) \cdot \left( \left( \frac{1.618}{2} + \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} - \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right) \right) \right) \cdot \left( \left( \left( \frac{1.618}{2} + \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} - \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right)^2 \right)^{\frac{3}{2}} \right)}$
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### 4) Midsphere Radius of Snub Dodecahedron Formula

Evaluate Formula

Formula	Example with Units
$r_m = \frac{1}{\sqrt{\frac{1 - 0.94315125924}{2}}} \cdot l_e$	$20.9705 \text{ m} = \frac{1}{\sqrt{\frac{1 - 0.94315125924}{2}}} \cdot 10 \text{ m}$



## 5) Surface to Volume Ratio of Snub Dodecahedron Formula

Evaluate Formula 

Formula

$$R_{A/V} = \frac{\left( (20 \cdot \sqrt{3}) + \left( 3 \cdot \sqrt{25 + (10 \cdot \sqrt{5})} \right) \right) \cdot 6 \cdot \left( 3 \cdot \left( \left( \frac{[\phi]}{2} + \sqrt{\frac{[\phi] \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} + \left( \frac{[\phi]}{2} - \sqrt{\frac{[\phi] \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} \right)^2 \right)^{\frac{3}{2}}}{l_e \cdot \left( (12 \cdot ((3 \cdot [\phi]) + 1)) \cdot \left( \left( \left( \frac{[\phi]}{2} + \sqrt{\frac{[\phi] \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} + \left( \frac{[\phi]}{2} - \sqrt{\frac{[\phi] \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} \right)^2 \right) \cdot \left( (36 \cdot [\phi]) + 7 \right) \cdot \left( \left( \frac{[\phi]}{2} + \sqrt{\frac{[\phi] \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} + \left( \frac{[\phi]}{2} - \sqrt{\frac{[\phi] \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} \right) \right)}$$

Example with Units

$$0.147 \text{ m}^{-1} = \frac{\left( (20 \cdot \sqrt{3}) + \left( 3 \cdot \sqrt{25 + (10 \cdot \sqrt{5})} \right) \right) \cdot 6 \cdot \left( 3 \cdot \left( \left( \frac{1.618}{2} + \sqrt{\frac{1.618 \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} - \sqrt{\frac{1.618 \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} \right)^2 \right)^{\frac{3}{2}}}{10 \text{ m} \cdot \left( (12 \cdot ((3 \cdot 1.618) + 1)) \cdot \left( \left( \left( \frac{1.618}{2} + \sqrt{\frac{1.618 \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} - \sqrt{\frac{1.618 \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} \right)^2 \right) \cdot \left( (36 \cdot 1.618) + 7 \right) \cdot \left( \left( \frac{1.618}{2} + \sqrt{\frac{1.618 \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} - \sqrt{\frac{1.618 \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} \right) \right)}$$

## 6) Surface to Volume Ratio of Snub Dodecahedron given Circumsphere Radius Formula

Evaluate Formula 

Formula

$$R_{A/V} = \frac{\left( (20 \cdot \sqrt{3}) + \left( 3 \cdot \sqrt{25 + (10 \cdot \sqrt{5})} \right) \right) \cdot 6 \cdot \left( 3 \cdot \left( \left( \frac{[\phi]}{2} + \sqrt{\frac{[\phi] \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} + \left( \frac{[\phi]}{2} - \sqrt{\frac{[\phi] \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} \right)^2 \right)^{\frac{3}{2}}}{\frac{2 \cdot r_c}{\sqrt{1 - 0.94315125924}} \cdot \left( (12 \cdot ((3 \cdot [\phi]) + 1)) \cdot \left( \left( \left( \frac{[\phi]}{2} + \sqrt{\frac{[\phi] \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} + \left( \frac{[\phi]}{2} - \sqrt{\frac{[\phi] \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} \right)^2 \right) \cdot \left( (36 \cdot [\phi]) + 7 \right) \cdot \left( \left( \frac{[\phi]}{2} + \sqrt{\frac{[\phi] \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} + \left( \frac{[\phi]}{2} - \sqrt{\frac{[\phi] \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} \right) \right)}$$

Example with Units

$$0.144 \text{ m}^{-1} = \frac{\left( (20 \cdot \sqrt{3}) + \left( 3 \cdot \sqrt{25 + (10 \cdot \sqrt{5})} \right) \right) \cdot 6 \cdot \left( 3 \cdot \left( \left( \frac{1.618}{2} + \sqrt{\frac{1.618 \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} - \sqrt{\frac{1.618 \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} \right)^2 \right)^{\frac{3}{2}}}{\frac{2 \cdot 22 \text{ m}}{\sqrt{1 - 0.94315125924}} \cdot \left( (12 \cdot ((3 \cdot 1.618) + 1)) \cdot \left( \left( \left( \frac{1.618}{2} + \sqrt{\frac{1.618 \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} - \sqrt{\frac{1.618 \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} \right)^2 \right) \cdot \left( (36 \cdot 1.618) + 7 \right) \cdot \left( \left( \frac{1.618}{2} + \sqrt{\frac{1.618 \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} - \sqrt{\frac{1.618 \cdot \sqrt{5}}{2}} \right)^{\frac{1}{3}} \right) \right)}$$

## 7) Total Surface Area of Snub Dodecahedron Formula

Evaluate Formula 

Formula

$$TSA = \left( (20 \cdot \sqrt{3}) + \left( 3 \cdot \sqrt{25 + (10 \cdot \sqrt{5})} \right) \right) \cdot l_e^2$$

Example with Units

$$5528.6745 \text{ m}^2 = \left( (20 \cdot \sqrt{3}) + \left( 3 \cdot \sqrt{25 + (10 \cdot \sqrt{5})} \right) \right) \cdot 10 \text{ m}^2$$



### 8) Total Surface Area of Snub Dodecahedron given Midsphere Radius Formula

Formula

Evaluate Formula 

$$TSA = \left( (20 \cdot \sqrt{3}) + (3 \cdot \sqrt{25 + (10 \cdot \sqrt{5})}) \right) \cdot \left( \frac{2 \cdot r_m}{\sqrt{\frac{1}{1 - 0.94315125924}}} \right)^2$$

Example with Units

$$5544.22 \text{ m}^2 = \left( (20 \cdot \sqrt{3}) + (3 \cdot \sqrt{25 + (10 \cdot \sqrt{5})}) \right) \cdot \left( \frac{2 \cdot 21 \text{ m}}{\sqrt{\frac{1}{1 - 0.94315125924}}} \right)^2$$

### 9) Total Surface Area of Snub Dodecahedron given Volume Formula

Formula

Evaluate Formula 

$$TSA = \left( (20 \cdot \sqrt{3}) + (3 \cdot \sqrt{25 + (10 \cdot \sqrt{5})}) \right) \cdot \left( \frac{V \cdot 6 \cdot \left( 3 \cdot \left( \left( \frac{[\text{phi}]}{2} + \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} \cdot \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right)}{\left( (12 \cdot ((3 \cdot [\text{phi}]) + 1)) \cdot \left( \left( \left( \frac{[\text{phi}]}{2} + \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} \cdot \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right)^2 \right) - \left( (36 \cdot [\text{phi}]) + 7 \right) \cdot \left( \frac{[\text{phi}]}{2} + \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)} \right)^{\frac{1}{3}}}{\left( (12 \cdot ((3 \cdot [\text{phi}]) + 1)) \cdot \left( \left( \left( \frac{[\text{phi}]}{2} + \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} \cdot \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right)^2 \right) - \left( (36 \cdot [\text{phi}]) + 7 \right) \cdot \left( \frac{[\text{phi}]}{2} + \frac{\sqrt{[\text{phi}] \cdot \frac{5}{27}}}{2} \right)} \right)^{\frac{1}{3}}}$$

Example with Units

$$5566.1727 \text{ m}^2 = \left( (20 \cdot \sqrt{3}) + (3 \cdot \sqrt{25 + (10 \cdot \sqrt{5})}) \right) \cdot \left( \frac{38000 \text{ m}^3 \cdot 6 \cdot \left( 3 \cdot \left( \left( \frac{1.618}{2} + \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} \cdot \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right)}{\left( (12 \cdot ((3 \cdot 1.618) + 1)) \cdot \left( \left( \left( \frac{1.618}{2} + \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} \cdot \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right)^2 \right) - \left( (36 \cdot 1.618) + 7 \right) \cdot \left( \frac{1.618}{2} + \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)} \right)^{\frac{1}{3}}}{\left( (12 \cdot ((3 \cdot 1.618) + 1)) \cdot \left( \left( \left( \frac{1.618}{2} + \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} \cdot \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)^{\frac{1}{3}} \right)^2 \right) - \left( (36 \cdot 1.618) + 7 \right) \cdot \left( \frac{1.618}{2} + \frac{\sqrt{1.618 \cdot \frac{5}{27}}}{2} \right)} \right)^{\frac{1}{3}}}$$



## 10) Volume of Snub Dodecahedron Formula

[Evaluate Formula](#) 
**Formula**

$$V = \frac{\left( (12 \cdot ((3 \cdot [\text{phi}] + 1)) \cdot \left( \left( \left( \frac{[\text{phi}]}{2} + \sqrt{\frac{[\text{phi}] \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} \cdot \sqrt{\frac{[\text{phi}] \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} \right)^2 \right) \cdot \left( ((36 \cdot [\text{phi}] + 7) \cdot \left( \left( \frac{[\text{phi}]}{2} + \sqrt{\frac{[\text{phi}] \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} \cdot \sqrt{\frac{[\text{phi}] \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} \right) \right)}{6 \cdot \left( 3 \cdot \left( \left( \frac{[\text{phi}]}{2} + \sqrt{\frac{[\text{phi}] \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} \cdot \sqrt{\frac{[\text{phi}] \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} \right)^2 \right)^{\frac{3}{2}}}$$

**Example with Units**

$$37616.65 \text{ m}^3 = \frac{\left( (12 \cdot ((3 \cdot 1.618) + 1)) \cdot \left( \left( \left( \frac{1.618}{2} + \sqrt{\frac{1.618 \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} \cdot \sqrt{\frac{1.618 \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} \right)^2 \right) \cdot \left( ((36 \cdot 1.618) + 7) \cdot \left( \left( \frac{1.618}{2} + \sqrt{\frac{1.618 \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} \cdot \sqrt{\frac{1.618 \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} \right) \right)}{6 \cdot \left( 3 \cdot \left( \left( \frac{1.618}{2} + \sqrt{\frac{1.618 \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} \cdot \sqrt{\frac{1.618 \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} \right)^2 \right)^{\frac{3}{2}}}$$

## 11) Volume of Snub Dodecahedron given Total Surface Area Formula

[Evaluate Formula](#) 
**Formula**

$$V = \frac{\left( (12 \cdot ((3 \cdot [\text{phi}] + 1)) \cdot \left( \left( \left( \frac{[\text{phi}]}{2} + \sqrt{\frac{[\text{phi}] \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} \cdot \sqrt{\frac{[\text{phi}] \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} \right)^2 \right) \cdot \left( ((36 \cdot [\text{phi}] + 7) \cdot \left( \left( \frac{[\text{phi}]}{2} + \sqrt{\frac{[\text{phi}] \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} \cdot \sqrt{\frac{[\text{phi}] \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} \right) \right)}{6 \cdot \left( 3 \cdot \left( \left( \frac{[\text{phi}]}{2} + \sqrt{\frac{[\text{phi}] \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} + \left( \frac{[\text{phi}]}{2} \cdot \sqrt{\frac{[\text{phi}] \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} \right)^2 \right)^{\frac{3}{2}}}$$

**Example with Units**





$$37324.3814 \text{ m}^3 = \frac{\left( (12 \cdot ((3 \cdot 1.618) + 1)) \cdot \left( \left( \left( \frac{1.618}{2} + \sqrt{\frac{1.618 \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} \cdot \sqrt{\frac{1.618 \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} \right)^2 \right) \cdot \left( ((36 \cdot 1.618) + 7) \cdot \left( \left( \frac{1.618}{2} + \sqrt{\frac{1.618 \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} \cdot \sqrt{\frac{1.618 \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} \right) \right)}{6 \cdot \left( 3 \cdot \left( \left( \frac{1.618}{2} + \sqrt{\frac{1.618 \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} + \left( \frac{1.618}{2} \cdot \sqrt{\frac{1.618 \cdot \frac{5}{27}}}{2}} \right)^{\frac{1}{3}} \right)^2 \right)^{\frac{3}{2}}}$$



## Variables used in list of Important Formulas of Snub Dodecahedron above

- $l_e$  Edge Length of Snub Dodecahedron (Meter)
- $R_{AV}$  Surface to Volume Ratio of Snub Dodecahedron (1 per Meter)
- $r_c$  Circumsphere Radius of Snub Dodecahedron (Meter)
- $r_m$  Midsphere Radius of Snub Dodecahedron (Meter)
- **TSA** Total Surface Area of Snub Dodecahedron (Square Meter)
- **V** Volume of Snub Dodecahedron (Cubic Meter)

## Constants, Functions, Measurements used in list of Important Formulas of Snub Dodecahedron above

- **constant(s):** **[phi]**, 1.61803398874989484820458683436563811  
Golden ratio
- **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:** **Volume** in Cubic Meter (m<sup>3</sup>)  
Volume Unit Conversion 
- **Measurement:** **Area** in Square Meter (m<sup>2</sup>)  
Area Unit Conversion 
- **Measurement:** **Reciprocal Length** in 1 per Meter (m<sup>-1</sup>)  
Reciprocal Length Unit Conversion 



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