

Important Concave Regular Hexagon Formulas PDF



Formulas
Examples
with Units

List of 20 Important Concave Regular Hexagon Formulas

1) Area of Concave Regular Hexagon Formulas

1.1) Area of Concave Regular Hexagon Formula

Formula

$$A = \sqrt{3} \cdot S^2$$

Example with Units

$$27.7128\text{m}^2 = \sqrt{3} \cdot 4\text{m}^2$$

Evaluate Formula 

1.2) Area of Concave Regular Hexagon given Breadth Formula

Formula

$$A = \frac{b^2}{\sqrt{3}}$$

Example with Units

$$28.2902\text{m}^2 = \frac{7\text{m}^2}{\sqrt{3}}$$

Evaluate Formula 

1.3) Area of Concave Regular Hexagon given Height Formula

Formula

$$A = \frac{4 \cdot \sqrt{3}}{9} \cdot h^2$$

Example with Units

$$27.7128\text{m}^2 = \frac{4 \cdot \sqrt{3}}{9} \cdot 6\text{m}^2$$

Evaluate Formula 

1.4) Area of Concave Regular Hexagon given Perimeter Formula

Formula

$$A = \frac{\sqrt{3}}{36} \cdot P^2$$

Example with Units

$$30.0703\text{m}^2 = \frac{\sqrt{3}}{36} \cdot 25\text{m}^2$$

Evaluate Formula 

2) Breadth of Concave Regular Hexagon Formulas

2.1) Breadth of Concave Regular Hexagon Formula

Formula

$$b = \sqrt{3} \cdot S$$

Example with Units

$$6.9282\text{m} = \sqrt{3} \cdot 4\text{m}$$

Evaluate Formula 

2.2) Breadth of Concave Regular Hexagon given Area Formula

Formula

$$b = \sqrt{\sqrt{3} \cdot A}$$

Example with Units

$$7.2084\text{m} = \sqrt{\sqrt{3} \cdot 30\text{m}^2}$$

Evaluate Formula 



2.3) Breadth of Concave Regular Hexagon given Height Formula ↻

Formula

$$b = \frac{2}{\sqrt{3}} \cdot h$$

Example with Units

$$6.9282 \text{ m} = \frac{2}{\sqrt{3}} \cdot 6 \text{ m}$$

Evaluate Formula ↻

2.4) Breadth of Concave Regular Hexagon given Perimeter Formula ↻

Formula

$$b = \frac{P}{2 \cdot \sqrt{3}}$$

Example with Units

$$7.2169 \text{ m} = \frac{25 \text{ m}}{2 \cdot \sqrt{3}}$$

Evaluate Formula ↻

3) Height of Concave Regular Hexagon Formulas ↻

3.1) Height of Concave Regular Hexagon Formula ↻

Formula

$$h = \frac{3}{2} \cdot S$$

Example with Units

$$6 \text{ m} = \frac{3}{2} \cdot 4 \text{ m}$$

Evaluate Formula ↻

3.2) Height of Concave Regular Hexagon given Area Formula ↻

Formula

$$h = \sqrt{\frac{3 \cdot \sqrt{3}}{4} \cdot A}$$

Example with Units

$$6.2427 \text{ m} = \sqrt{\frac{3 \cdot \sqrt{3}}{4} \cdot 30 \text{ m}^2}$$

Evaluate Formula ↻

3.3) Height of Concave Regular Hexagon given Breadth Formula ↻

Formula

$$h = \frac{\sqrt{3}}{2} \cdot b$$

Example with Units

$$6.0622 \text{ m} = \frac{\sqrt{3}}{2} \cdot 7 \text{ m}$$

Evaluate Formula ↻

3.4) Height of Concave Regular Hexagon given Perimeter Formula ↻

Formula

$$h = \frac{P}{4}$$

Example with Units

$$6.25 \text{ m} = \frac{25 \text{ m}}{4}$$

Evaluate Formula ↻

4) Perimeter of Concave Regular Hexagon Formulas ↻

4.1) Perimeter of Concave Regular Hexagon Formula ↻

Formula

$$P = 6 \cdot S$$

Example with Units

$$24 \text{ m} = 6 \cdot 4 \text{ m}$$

Evaluate Formula ↻



4.2) Perimeter of Concave Regular Hexagon given Area Formula

Formula

$$P = \sqrt{12 \cdot \sqrt{3} \cdot A}$$

Example with Units

$$24.9707 \text{ m} = \sqrt{12 \cdot \sqrt{3} \cdot 30 \text{ m}^2}$$

Evaluate Formula 

4.3) Perimeter of Concave Regular Hexagon given Breadth Formula

Formula

$$P = 2 \cdot \sqrt{3} \cdot b$$

Example with Units

$$24.2487 \text{ m} = 2 \cdot \sqrt{3} \cdot 7 \text{ m}$$

Evaluate Formula 

4.4) Perimeter of Concave Regular Hexagon given Height Formula

Formula

$$P = 4 \cdot h$$

Example with Units

$$24 \text{ m} = 4 \cdot 6 \text{ m}$$

Evaluate Formula 

5) Side of Concave Regular Hexagon Formulas

5.1) Side of Concave Regular Hexagon given Area Formula

Formula

$$S = \sqrt{\frac{A}{\sqrt{3}}}$$

Example with Units

$$4.1618 \text{ m} = \sqrt{\frac{30 \text{ m}^2}{\sqrt{3}}}$$

Evaluate Formula 

5.2) Side of Concave Regular Hexagon given Breadth Formula

Formula

$$S = \frac{b}{\sqrt{3}}$$

Example with Units

$$4.0415 \text{ m} = \frac{7 \text{ m}}{\sqrt{3}}$$

Evaluate Formula 

5.3) Side of Concave Regular Hexagon given Height Formula

Formula

$$S = \frac{2}{3} \cdot h$$

Example with Units

$$4 \text{ m} = \frac{2}{3} \cdot 6 \text{ m}$$

Evaluate Formula 

5.4) Side of Concave Regular Hexagon given Perimeter Formula

Formula

$$S = \frac{P}{6}$$

Example with Units

$$4.1667 \text{ m} = \frac{25 \text{ m}}{6}$$



Evaluate Formula 



Variables used in list of Concave Regular Hexagon Formulas above

- **A** Area of Concave Regular Hexagon (Square Meter)
- **b** Breadth of Concave Regular Hexagon (Meter)
- **h** Height of Concave Regular Hexagon (Meter)
- **P** Perimeter of Concave Regular Hexagon (Meter)
- **S** Side Length of Concave Regular Hexagon (Meter)


Constants, Functions, Measurements used in list of Concave Regular Hexagon Formulas above

- **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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