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Concave Regular Hexagon Formulas

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List of 20 Concave Regular Hexagon Formulas

Concave Regular Hexagon

Area of Concave Regular Hexagon

1) Area of Concave Regular Hexagon

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

[Open Calculator !\[\]\(de95854c7ee024cfadc48187bbb781b2_img.jpg\)](#)

$$\text{ex } 27.71281\text{m}^2 = \sqrt{3} \cdot (4\text{m})^2$$

2) Area of Concave Regular Hexagon given Breadth

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

[Open Calculator !\[\]\(6a9b39b98eb945faa14c645ec99e4eaa_img.jpg\)](#)

$$\text{ex } 28.29016\text{m}^2 = \frac{(7\text{m})^2}{\sqrt{3}}$$

3) Area of Concave Regular Hexagon given Height

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

[Open Calculator !\[\]\(f1c5da15572e3e09d343161be98f508d_img.jpg\)](#)

$$\text{ex } 27.71281\text{m}^2 = \frac{4 \cdot \sqrt{3}}{9} \cdot (6\text{m})^2$$



4) Area of Concave Regular Hexagon given Perimeter

[Open Calculator !\[\]\(4729e517bc6a7cd81c8025b9646574fb_img.jpg\)](#)

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

$$\text{ex } 30.07033\text{m}^2 = \frac{\sqrt{3}}{36} \cdot (25\text{m})^2$$

Breadth of Concave Regular Hexagon

5) Breadth of Concave Regular Hexagon

[Open Calculator !\[\]\(3e2231b1ad3ca8da8658228c00dd08e0_img.jpg\)](#)

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

$$\text{ex } 6.928203\text{m} = \sqrt{3} \cdot 4\text{m}$$

6) Breadth of Concave Regular Hexagon given Area

[Open Calculator !\[\]\(0d5ec72f61334709c3fc9450209b754f_img.jpg\)](#)

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

$$\text{ex } 7.208434\text{m} = \sqrt{\sqrt{3} \cdot 30\text{m}^2}$$

7) Breadth of Concave Regular Hexagon given Height

[Open Calculator !\[\]\(b64b40baaee5acddc1eab8538ba84754_img.jpg\)](#)

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

$$\text{ex } 6.928203\text{m} = \frac{2}{\sqrt{3}} \cdot 6\text{m}$$



8) Breadth of Concave Regular Hexagon given Perimeter

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

[Open Calculator !\[\]\(e78f798d4ea5c530c9db49e7d26e6b95_img.jpg\)](#)

$$\text{ex } 7.216878\text{m} = \frac{25\text{m}}{2 \cdot \sqrt{3}}$$

Height of Concave Regular Hexagon 9) Height of Concave Regular Hexagon

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

[Open Calculator !\[\]\(aa53ad6fea213b8b2226d3077e30533a_img.jpg\)](#)

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

10) Height of Concave Regular Hexagon given Area

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

[Open Calculator !\[\]\(626ce8ac21792b9405bfddfea8e0c96a_img.jpg\)](#)

$$\text{ex } 6.242687\text{m} = \sqrt{\frac{3 \cdot \sqrt{3}}{4} \cdot 30\text{m}^2}$$



11) Height of Concave Regular Hexagon given Breadth [Open Calculator !\[\]\(bd1a142de767a21e5362c595f844a4ff_img.jpg\)](#)

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

$$\text{ex } 6.062178\text{m} = \frac{\sqrt{3}}{2} \cdot 7\text{m}$$

12) Height of Concave Regular Hexagon given Perimeter [Open Calculator !\[\]\(830769b31eeeaca920791081939ff8ba_img.jpg\)](#)

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

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

Perimeter of Concave Regular Hexagon 13) Perimeter of Concave Regular Hexagon [Open Calculator !\[\]\(bd3b31712ad9bab5a241210fa6925cdd_img.jpg\)](#)

$$\text{fx } P = 6 \cdot S$$

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

14) Perimeter of Concave Regular Hexagon given Area [Open Calculator !\[\]\(7bc43b319a082987e20f7bf78f4bab80_img.jpg\)](#)

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

$$\text{ex } 24.97075\text{m} = \sqrt{12 \cdot \sqrt{3} \cdot 30\text{m}^2}$$



15) Perimeter of Concave Regular Hexagon given Breadth

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

[Open Calculator !\[\]\(d3fb9f94af8b26d1c844efa9a98805b0_img.jpg\)](#)

$$\text{ex } 24.24871\text{m} = 2 \cdot \sqrt{3} \cdot 7\text{m}$$

16) Perimeter of Concave Regular Hexagon given Height

$$\text{fx } P = 4 \cdot h$$

[Open Calculator !\[\]\(e1d6102fe77919492c04879c8450f1f5_img.jpg\)](#)

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

Side of Concave Regular Hexagon

17) Side of Concave Regular Hexagon given Area

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

[Open Calculator !\[\]\(104fbf564e2e5a8fbd84f31656d114c7_img.jpg\)](#)

$$\text{ex } 4.161791\text{m} = \sqrt{\frac{30\text{m}^2}{\sqrt{3}}}$$

18) Side of Concave Regular Hexagon given Breadth

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

[Open Calculator !\[\]\(21226b58c700e5231ab98d27101bac58_img.jpg\)](#)

$$\text{ex } 4.041452\text{m} = \frac{7\text{m}}{\sqrt{3}}$$



19) Side of Concave Regular Hexagon given Height

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

Open Calculator 

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

20) Side of Concave Regular Hexagon given Perimeter

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

Open Calculator 

ex
$$4.166667\text{m} = \frac{25\text{m}}{6}$$



Variables Used

- **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

- **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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