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Concave Pentagon Formulas

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List of 12 Concave Pentagon Formulas

Concave Pentagon

Area of Concave Pentagon

1) Area of Concave Pentagon

$$\text{fx } A = \frac{3}{4} \cdot l_{\text{e(Square)}}^2$$

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

$$\text{ex } 12\text{m}^2 = \frac{3}{4} \cdot (4\text{m})^2$$

2) Area of Concave Pentagon given Leg Length of Triangle

$$\text{fx } A = \frac{3}{2} \cdot l_{\text{Leg(Triangle)}}^2$$

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

$$\text{ex } 13.5\text{m}^2 = \frac{3}{2} \cdot (3\text{m})^2$$



3) Area of Concave Pentagon given Perimeter

$$\text{fx } A = \frac{3}{4 \cdot (3 + \sqrt{2})^2} \cdot P^2$$

[Open Calculator !\[\]\(cbe80b694ebd74fcfe136a095b608235_img.jpg\)](#)

$$\text{ex } 12.47095\text{m}^2 = \frac{3}{4 \cdot (3 + \sqrt{2})^2} \cdot (18\text{m})^2$$

Edge Length of Square of Concave Pentagon

4) Edge Length of Square of Concave Pentagon given Area

$$\text{fx } l_{\text{e(Square)}} = \sqrt{\frac{4}{3} \cdot A}$$

[Open Calculator !\[\]\(5361750c22c4e047a52f4eac1ec2d4cc_img.jpg\)](#)

$$\text{ex } 4\text{m} = \sqrt{\frac{4}{3} \cdot 12\text{m}^2}$$

5) Edge Length of Square of Concave Pentagon given Leg Length of Triangle

$$\text{fx } l_{\text{e(Square)}} = \sqrt{2} \cdot l_{\text{Leg(Triangle)}}$$

[Open Calculator !\[\]\(b792654f2cef9719eabeb6c5be00811e_img.jpg\)](#)

$$\text{ex } 4.242641\text{m} = \sqrt{2} \cdot 3\text{m}$$



6) Edge Length of Square of Concave Pentagon given Perimeter

$$\text{fx } l_{\text{e(Square)}} = \frac{P}{3 + \sqrt{2}}$$

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

$$\text{ex } 4.077737\text{m} = \frac{18\text{m}}{3 + \sqrt{2}}$$

Leg Length of Triangle of Concave Pentagon 7) Leg Length of Triangle of Concave Pentagon

$$\text{fx } l_{\text{Leg(Triangle)}} = \frac{l_{\text{e(Square)}}}{\sqrt{2}}$$

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

$$\text{ex } 2.828427\text{m} = \frac{4\text{m}}{\sqrt{2}}$$

8) Leg Length of Triangle of Concave Pentagon given Area

$$\text{fx } l_{\text{Leg(Triangle)}} = \sqrt{\frac{2}{3} \cdot A}$$

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

$$\text{ex } 2.828427\text{m} = \sqrt{\frac{2}{3} \cdot 12\text{m}^2}$$



9) Leg Length of Triangle of Concave Pentagon given Perimeter

$$\text{fx } l_{\text{Leg(Triangle)}} = \frac{P}{(3 \cdot \sqrt{2}) + 2}$$

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

$$\text{ex } 2.883395\text{m} = \frac{18\text{m}}{(3 \cdot \sqrt{2}) + 2}$$

Perimeter of Concave Pentagon

10) Perimeter of Concave Pentagon

$$\text{fx } P = (3 + \sqrt{2}) \cdot l_{\text{e(Square)}}$$

[Open Calculator !\[\]\(8bba887393ca45b761e5cb49e755e762_img.jpg\)](#)

$$\text{ex } 17.65685\text{m} = (3 + \sqrt{2}) \cdot 4\text{m}$$

11) Perimeter of Concave Pentagon given Area

$$\text{fx } P = (3 + \sqrt{2}) \cdot \sqrt{\frac{4}{3} \cdot A}$$

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

$$\text{ex } 17.65685\text{m} = (3 + \sqrt{2}) \cdot \sqrt{\frac{4}{3} \cdot 12\text{m}^2}$$



12) Perimeter of Concave Pentagon given Leg Length of Triangle

$$\text{fx } P = \left(\left(3 \cdot \sqrt{2} \right) + 2 \right) \cdot l_{\text{Leg(Triangle)}}$$

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

$$\text{ex } 18.72792\text{m} = \left(\left(3 \cdot \sqrt{2} \right) + 2 \right) \cdot 3\text{m}$$



Variables Used

- **A** Area of Concave Pentagon (*Square Meter*)
- **$l_e(\text{Square})$** Edge Length of Square of Concave Pentagon (*Meter*)
- **$l_{\text{Leg}}(\text{Triangle})$** Leg Length of Triangle of Concave Pentagon (*Meter*)
- **P** Perimeter of Concave Pentagon (*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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