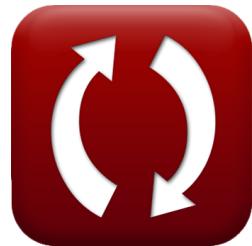




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List of 12 Concave Pentagon Formulas

Concave Pentagon ↗

Area of Concave Pentagon ↗

1) Area of Concave Pentagon ↗

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

Open Calculator ↗

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

2) Area of Concave Pentagon given Leg Length of Triangle ↗

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

Open Calculator ↗

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



3) Area of Concave Pentagon given Perimeter ↗

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

[Open Calculator ↗](#)

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

Edge Length of Square of Concave Pentagon ↗

4) Edge Length of Square of Concave Pentagon given Area ↗

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

[Open Calculator ↗](#)

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

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

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

[Open Calculator ↗](#)

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



6) Edge Length of Square of Concave Pentagon given Perimeter

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

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

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

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

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

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

8) Leg Length of Triangle of Concave Pentagon given Area

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

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

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



9) Leg Length of Triangle of Concave Pentagon given Perimeter ↗

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

Open Calculator ↗

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

Perimeter of Concave Pentagon ↗**10) Perimeter of Concave Pentagon** ↗

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

Open Calculator ↗

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

11) Perimeter of Concave Pentagon given Area ↗

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

Open Calculator ↗

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



12) Perimeter of Concave Pentagon given Leg Length of Triangle 

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

Open Calculator 

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



Variables Used

- **A** Area of Concave Pentagon (*Square Meter*)
- **$l_e(\text{Square})$** Edge Length of Square of Concave Pentagon (*Meter*)
- **$l_{\text{Leg(Triangle)}}$** 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 (m^2)
Area Unit Conversion ↗



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