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Tangential Quadrilateral Formulas

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List of 9 Tangential Quadrilateral Formulas

Tangential Quadrilateral ↗

Area, Perimeter and Radius of Tangential Quadrilateral ↗

1) Area of Tangential Quadrilateral ↗

$$fx \quad A = (S_a + S_c) \cdot r_i$$

[Open Calculator ↗](#)

$$ex \quad 120m^2 = (8m + 4m) \cdot 10m$$

2) Inradius of Tangential Quadrilateral given Area ↗

$$fx \quad r_i = \frac{A}{S_a + S_c}$$

[Open Calculator ↗](#)

$$ex \quad 10m = \frac{120m^2}{8m + 4m}$$

3) Perimeter of Tangential Quadrilateral ↗

$$fx \quad P = S_a + S_b + S_c + S_d$$

[Open Calculator ↗](#)

$$ex \quad 24m = 8m + 7m + 4m + 5m$$



Side of Tangential Quadrilateral ↗

4) Side A of Tangential Quadrilateral given Area ↗

fx $S_a = \frac{A}{r_i} - S_c$

[Open Calculator ↗](#)

ex $8m = \frac{120m^2}{10m} - 4m$

5) Side A of Tangential Quadrilateral given other Sides ↗

fx $S_a = S_b + S_d - S_c$

[Open Calculator ↗](#)

ex $8m = 7m + 5m - 4m$

6) Side B of Tangential Quadrilateral given other Sides ↗

fx $S_b = S_a + S_c - S_d$

[Open Calculator ↗](#)

ex $7m = 8m + 4m - 5m$

7) Side C of Tangential Quadrilateral given Area ↗

fx $S_c = \frac{A}{r_i} - S_a$

[Open Calculator ↗](#)

ex $4m = \frac{120m^2}{10m} - 8m$



8) Side C of Tangential Quadrilateral given other Sides 

fx $S_c = S_b + S_d - S_a$

Open Calculator 

ex $4m = 7m + 5m - 8m$

9) Side D of Tangential Quadrilateral given other Sides 

fx $S_d = S_a + S_c - S_b$

Open Calculator 

ex $5m = 8m + 4m - 7m$



Variables Used

- **A** Area of Tangential Quadrilateral (*Square Meter*)
- **P** Perimeter of Tangential Quadrilateral (*Meter*)
- **r_i** Inradius of Tangential Quadrilateral (*Meter*)
- **S_a** Side A of Tangential Quadrilateral (*Meter*)
- **S_b** Side B of Tangential Quadrilateral (*Meter*)
- **S_c** Side C of Tangential Quadrilateral (*Meter*)
- **S_d** Side D of Tangential Quadrilateral (*Meter*)



Constants, Functions, Measurements used

- **Measurement:** Length in Meter (m)
Length Unit Conversion 
- **Measurement:** Area in Square Meter (m^2)
Area Unit Conversion 



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