

### 3.16 General Quadrilateral

Sides of a quadrilateral:  $a, b, c, d$

Diagonals:  $d_1, d_2$

Angle between the diagonals:  $\varphi$

Internal angles:  $\alpha, \beta, \gamma, \delta$

Perimeter: L

Area: S

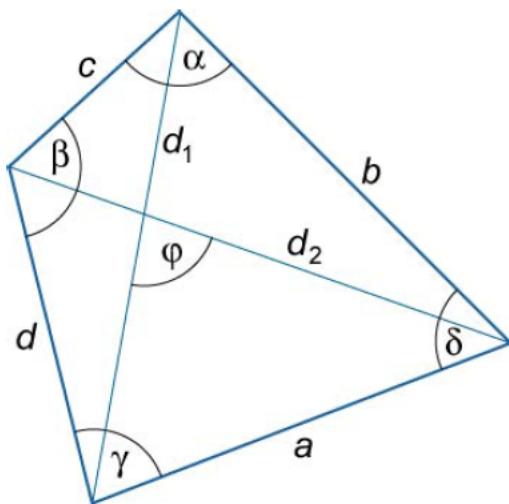


Figure 27.

$$\text{246. } \alpha + \beta + \gamma + \delta = 360^\circ$$

$$\text{247. } L = a + b + c + d$$

$$\text{248. } S = \frac{1}{2} d_1 d_2 \sin \varphi$$