

## 3.8 Rhombus

Side of a rhombus:  $a$

Diagonals:  $d_1, d_2$

Consecutive angles:  $\alpha, \beta$

Altitude:  $H$

Radius of inscribed circle:  $r$

Perimeter:  $L$

Area:  $S$

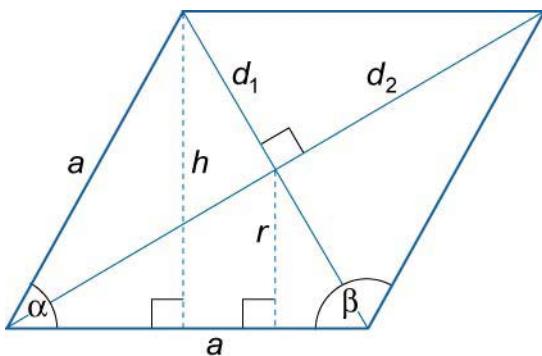


Figure 19.

$$210. \quad \alpha + \beta = 180^\circ$$

$$211. \quad d_1^2 + d_2^2 = 4a^2$$

$$212. \quad h = a \sin \alpha = \frac{d_1 d_2}{2a}$$

$$213. \quad r = \frac{h}{2} = \frac{d_1 d_2}{4a} = \frac{a \sin \alpha}{2}$$

$$214. \quad L = 4a$$

$$215. \quad S = ah = a^2 \sin \alpha ,$$

$$S = \frac{1}{2} d_1 d_2 .$$