3.20 Sector of a Circle

Radius of a circle: R
Arc length: s
Central angle (in radians): x
Central angle (in degrees): α
Perimeter: L
Area: S

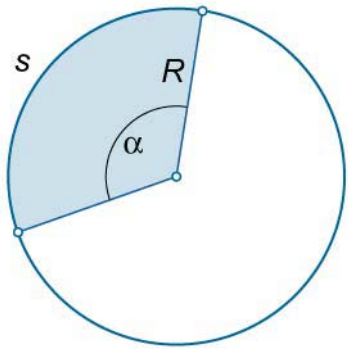

Figure 35.

267. $s = Rx$

268. $s = \frac{\pi R \alpha}{180^\circ}$

269. $L = s + 2R$

270. $S = \frac{Rs}{2} = \frac{R^2 x}{2} = \frac{\pi R^2 \alpha}{360^\circ}$