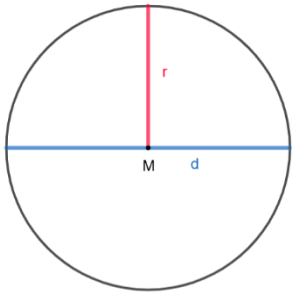
Der Kreis – Formelsammlung

Durchmesser – Radius:

$d = 2 \cdot r$

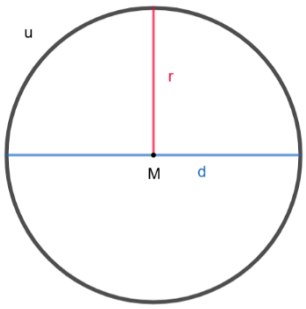
$r = \frac{d}{2}$



Kreisumfang:

$u = 2 \cdot r \cdot \pi$

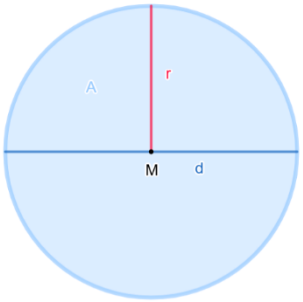
$u = d \cdot \pi$



Kreisfläche:

$A = r^2 \cdot \pi$

$A = \frac{d^2 \cdot \pi}{4}$

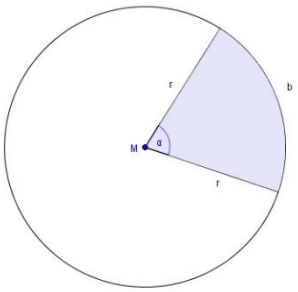


Kreissektor:

Bogenlänge: $b = \frac{r \cdot \pi \cdot \alpha}{180}$

Flächeninhalt: $A = \frac{r^2 \cdot \pi \cdot \alpha}{360}$ $A = \frac{b \cdot r}{2}$

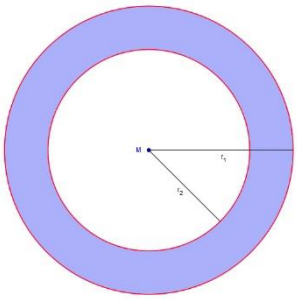
Umfang: $u = 2 \cdot r + \frac{r \cdot \pi \cdot \alpha}{180}$



Kreisring:

Flächeninhalt: $A = \pi \cdot ({r_1}^2 - {r_2}^2)$

Umfang: $u = 2 \cdot \pi \cdot (r_1 + r_2)$



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