

Umfangsgeschwindigkeit:

$$v_u = \frac{2r\pi}{t} = \frac{d\pi}{t} \quad \left[ \frac{\text{m}}{\text{s}} \right] \quad \text{da } n = \frac{1}{t} \quad \left[ \frac{1}{\text{s}} \right]$$

$$v_u = 2r\pi n = d\pi n \quad \left[ \frac{\text{m}}{\text{s}} \right] \quad \text{da } \omega = \frac{v_u}{r} \quad \left[ \frac{1}{\text{s}} \right]$$

$$v_u = \omega \cdot r \quad \text{und} \quad \omega = 2\pi n \quad \left[ \frac{1}{\text{s}} \right]$$