

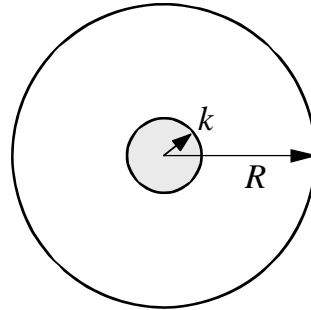
[Remarks:](#) See §3.2.4, example 8, pages 116 till 119

See §4.9, pages 203 till 208

[Answer:](#)

$$k = 50 \text{ mm}$$

[Explanation:](#)



$$I = \frac{1}{4} \pi R^4$$

$$W = \frac{I}{R} = \frac{1}{4} \pi R^3$$

$$k = \frac{W_z}{A} = \frac{\frac{1}{4} \pi R^3}{\pi R^2} = \frac{1}{4} R = 50 \text{ mm}$$