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.1

$$G = \sigma \frac{S}{L} \Rightarrow S = \frac{G.L}{\sigma}$$

$$S = \frac{32,1 \cdot 10^{-3} \times 1,1 \cdot 10^{-2}}{1,167} = 2,7 \cdot 10^{-4} m^2$$

$$S = 2,7 cm^2$$

.2

$$G = \sigma \frac{S}{L} \Rightarrow L = \sigma \frac{S}{G}$$

$$L = 2,78 \times \frac{5,2 \cdot 10^{-4}}{159 \cdot 10^{-3}} = 9,1 \cdot 10^{-3} m$$

$$L = 0,91 cm$$