

$$\frac{c}{n} = \frac{3 \cdot 10^8}{2,41} = 1,24 \cdot 10^8 \text{ m/s}$$

$$t = \frac{L}{v} = \frac{1 \text{ m}}{1,24 \cdot 10^8 \text{ m/s}} = 1 / (1,24 \times 10^8) = 8,06^{-9}$$

3 $n = 2,41$

$$f = 4 \cdot 10^{14} \text{ Hz}$$

$$\hat{\alpha} = 2^\circ = 2^\circ \cdot \frac{\pi}{180} = 0,035$$

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$$n_1 \cdot \text{sen}(2^\circ) = n_2 \cdot \text{sen}(0,08 \text{ Rad})$$

$$\text{sen}(0,08 \text{ Rad}) = 45$$