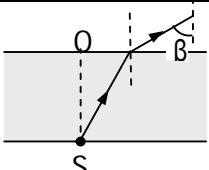


Subiectul D. OPTICĂ

Nr. item	Soluție/Rezolvare
II.a.	$n \sin i = \sin r$ $i = 30^\circ$
b.	Rezultat final: $r = 60^\circ$ $n \sin i_1 = \sin r_1$ $r_1 = 90^\circ$
c.	$ OP = d \operatorname{tg} i_1$, cu $\operatorname{tg} i = \sin i / \cos i$ Rezultat final: $ OP = 2 \text{ cm}$
d.	 $\operatorname{tg} i = \frac{ OP }{ OS }$, $\operatorname{tgr} = \frac{ OP }{ OS' }$ $i \rightarrow 0 \Rightarrow \operatorname{tgi} \rightarrow \sin i$; $r \rightarrow 0 \Rightarrow \operatorname{tgr} \rightarrow \sin r$ $ SS' = OS - OS' $ rezultat final: $ SS' = 1,19 \text{ cm}$