

Solución pag 158.

$$2. n = \frac{c}{v} \Rightarrow v = \frac{c}{n} = \frac{3 \cdot 10^8}{2.41} = 1.24 \cdot 10^8 \text{ m/s}$$

R/se tardaría $1.24 \cdot 10^8$ m/s

$$3. \text{Punto 1: } n = \frac{c}{v} = v = \frac{c}{n} = \frac{3 \cdot 10^8}{2.41} = 1.24 \cdot 10^8 \text{ m/s}$$

$$\text{Punto 2: } n_1 \cdot \sin(\alpha) = n_2 \cdot \sin(\beta) \Rightarrow \sin(\beta) = \frac{n_1}{n_2} \cdot \sin(\alpha)$$

$$\left(\frac{2.41}{1} \cdot \sin(0.2) \right) = 0.52 \text{ rad} = 30^\circ$$

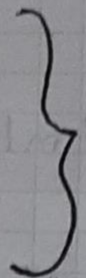
$$1 = 12 = 12 \cdot \frac{\pi}{180} = 0.2 \text{ rad}$$

Respuesta 1: La velocidad del haz es de $1.24 \cdot 10^8$ m/s

Respuesta 2: El ángulo es 30°

$$4. \sin(\alpha) = \frac{d}{|i|}$$

$$\cos(\hat{i}) = \frac{e}{|i|}$$



$$d = e \cdot \frac{\sin(\alpha - \hat{i})}{\cos \hat{i}}$$

→ $|i|$ es llamado como la distancia que recorre el rayo en el interior de la lamina, es decir la hipotenusa de los dos triangulos rectangulos considerados en las relaciones.

- a Prismas
- b Lentes
- c Espejos
- d Todas son verdaderas



Rejilla de respuestas

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



!

X