

$M^{\circ 1}$  (A)

$M_1 = 1$  AIR  
 $M_2 = 1,4$  CORNEA  $\theta_1 = 30^\circ$   
 $\theta_2 = ?$

Loi de SNELL  
 CARTESIUS

$$M_1 \sin \theta_1 = M_2 \sin \theta_2$$

$$\sin \theta_2 = \frac{M_1 \sin \theta_1}{M_2}$$

$$\theta_2 = \sin^{-1} \left( \frac{M_1 \sin \theta_1}{M_2} \right) = \sin^{-1} \left( \frac{1}{1,4} \cdot \sin 30^\circ \right) = 20,92^\circ$$

(B)

$M_1 = 1,33$  AIR  
 $M_2 = 1,4$  CORNEA  $\theta_1 = 30^\circ$   
 $\theta_2 = ?$

$$\theta_2 = \sin^{-1} \left( \frac{M_1 \sin \theta_1}{M_2} \right) = \sin^{-1} \left( \frac{1,33}{1,4} \cdot \sin 30^\circ \right) = 28,36^\circ$$

(C)

$M_1 = 1,33$  AIR  $\theta_1 = ?$   
 $M_2 = 1,4$  CORNEA  $\theta_2 = 20,92^\circ$  \*

$$M_1 \sin \theta_1 = M_2 \sin \theta_2$$

$$\sin \theta_1 = \frac{M_2 \sin \theta_2}{M_1}$$

$$\theta_1 = \sin^{-1} \left( \frac{M_2 \sin \theta_2}{M_1} \right) = \sin^{-1} \left( \frac{1,4 \sin 20,92^\circ}{1,33} \right) = 22^\circ$$