Answer on question #69057, Physics / Mechanics

Question From the graph, what is the critical angle for glass - air interface?

Solution Critical angle is

$$\theta_c = \arcsin \frac{n_2}{n_1}$$

The relation of refractive indexes is in our case $\frac{n_2}{n_1} = \frac{1}{1.5}$. Hence

$$\theta_c = \arcsin\frac{2}{3} \approx 41.81^{\circ}$$