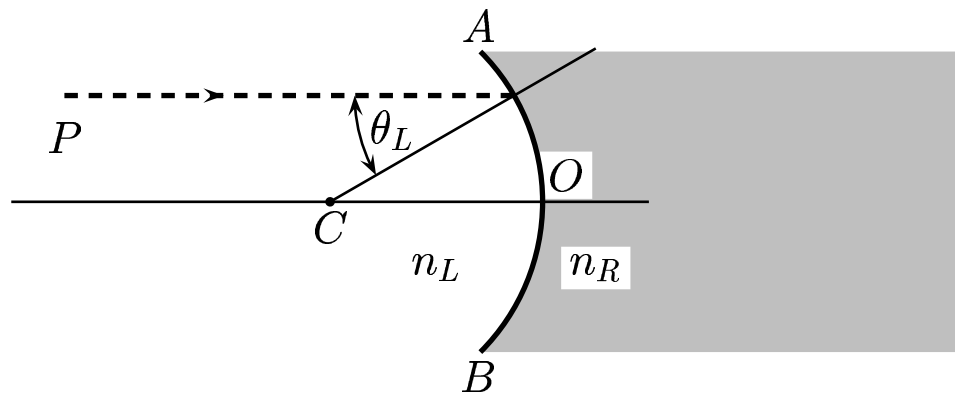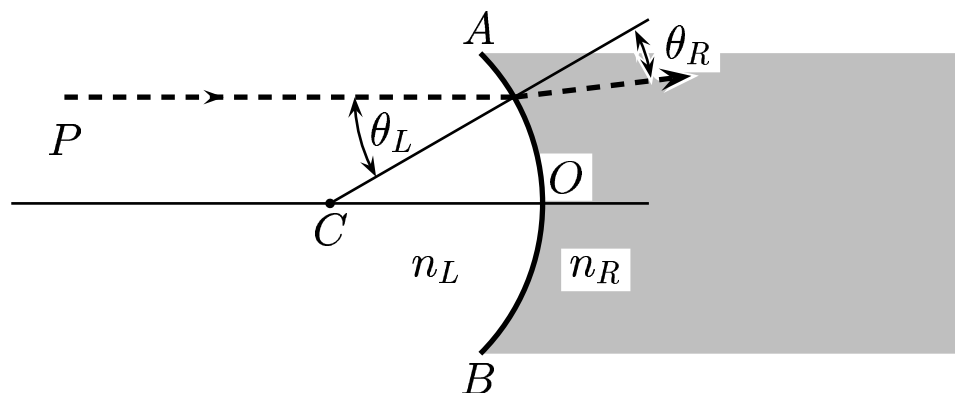Consider a spherical surface AOB, where $n_L < n_R$.

Is it a convergent or a divergent surface?

A)   It is a convergent surface.
B)   It is a divergent surface.
C)   Neither of the above.

Inspection on the ray diagram shows $\theta_R < \theta_L$. This shows that the surface is divergent.

Answer **B**.