Related Questions with Solutions

Questions

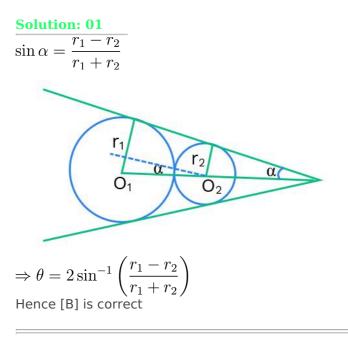
Quetion: 01

Two circles with radii r_1 and $r_2, r_1 > r_2 \ge 2$, touch each other externally. If ' θ ' be the angle between the direct common tangents, then

A.
$$\theta = \sin^{-1}\left(\frac{r_1 + r_2}{r_1 - r_2}\right)$$

B. $\theta = 2\sin^{-1}\left(\frac{r_1 - r_2}{r_1 + r_2}\right)$
C. $\theta = \sin^{-1}\left(\frac{r_1 - r_2}{r_1 + r_2}\right)$
D. none of these

Solutions



Correct Options

Answer:01 Correct Options: B