Related Questions with Solutions

Questions

Quetion: 01

If $\sin\alpha = A\sin(\alpha+\beta), A \neq 0$
The value of $\tan\beta$ is
A. $\frac{\sin\alpha(1+A\cos\beta)}{A\cos\alpha\cos\beta}$
B. $\frac{\sin\alpha(1-A\cos\beta)}{A\cos\alpha\cos\beta}$
C. $\frac{\cos\alpha(1-A\cos\beta)}{A\cos\alpha\cos\beta}$
D. $\frac{\cos\alpha(1+A\sin\beta)}{A\cos\alpha\cos\beta}$

Solutions

Solution: 01

$\tan\beta = \frac{\sin\beta}{\cos\beta} = \frac{(1-A\cos\beta)\tan\alpha}{A\cos\beta}$[From [i]
$= \frac{(1-A\cos\beta)\sin\alpha}{A\cos\alpha\cos\beta}$.....[ii]

Correct Options

Answer:01
Correct Options: B