

4 (a) Prove that $\frac{1}{1 - \sin x} - \frac{1}{1 + \sin x} = 2 \tan x \sec x$.

[3]

*For
Examiner's
Use*

(b) An acute angle x is such that $\sin x = p$. Given that $\sin 2x = 2 \sin x \cos x$, find an expression, in terms of p , for $\operatorname{cosec} 2x$. [3]