Higher Maths
SQA 2016 Paper 2
Question 11

(a) Show that $\sin 2x \tan x = 1 - \cos 2x$, where $\frac{\pi}{2} < x < \frac{3\pi}{2}$. **4**

(b) Given that $f(x) = \sin 2x \tan x$, find $f'(x)$. **2**

Answers:

(a) Proof. See marking instructions.

(b) $f'(x) = 2\sin 2x$

or

$f'(x) = 4\sin x \cos x$