

- 5 (i) Show that the equation $3 \sin x \tan x = 8$ can be written as $3 \cos^2 x + 8 \cos x - 3 = 0$. [3]
- (ii) Hence solve the equation $3 \sin x \tan x = 8$ for $0^\circ \leq x \leq 360^\circ$. [3]