5 **(a)** Show that $\frac{1}{\operatorname{cosec} x - 1} + \frac{1}{\operatorname{cosec} x + 1} = 2 \tan x \sec x$. [4]

(b) Hence solve the equation $\frac{1}{\operatorname{cosec} x - 1} + \frac{1}{\operatorname{cosec} x + 1} = 5 \operatorname{cosec} x$ for $0° < x < 360°$. [4]