Trigonometry – 2022 O Level Additional Math

1. June/2022/Paper_11/No.6(b)

(b) (i) Show that $\frac{1+\tan\theta}{1-\cos\theta}+\frac{1-\tan\theta}{1+\cos\theta}=\frac{2(1+\sin\theta)}{\sin^2\theta}$. [4]

2. June/2022/Paper_12/No.2

Given that $x = \sec^2\theta$ and $y+2 = \cot^2\theta$, find y in terms of x. [4]