Question 4 (25 marks)

(a) Find **all** the values of x for which $\cos(2x) = -\frac{\sqrt{3}}{2}$, where $0° \leq x \leq 360°$.

(b) Let $\cos A = \frac{y}{2}$, where $0° < A < 90°$. Write $\sin(2A)$ in terms of y.