

2. (a) Use the formula for $\sin(A - B)$ to show that $\sin(90^\circ - x) = \cos x$

(1)

(b) Solve for $0 < \theta < 360^\circ$

$$2 \sin(\theta + 17^\circ) = \frac{\cos(\theta + 8^\circ)}{\cos(\theta + 17^\circ)}$$

(7)