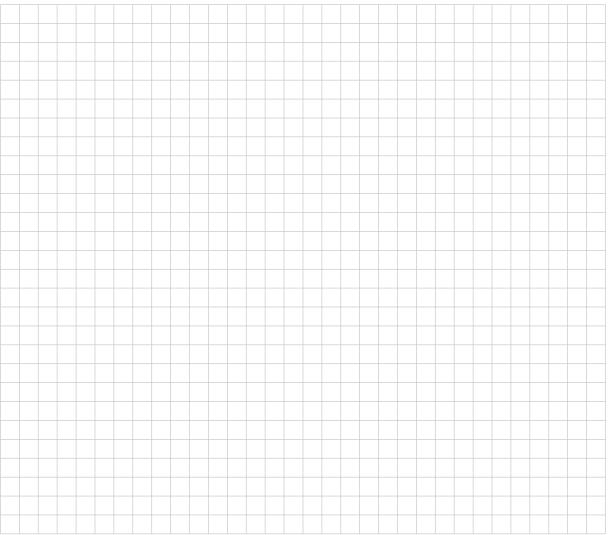
Question 5 (25 marks)

(a) Prove that $\tan(A+B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$.



(b) Find all the values of x for which $\sin(3x) = \frac{\sqrt{3}}{2}$, $0 \le x \le 360$, x in degrees.

