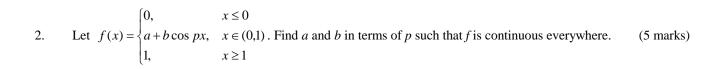
P.O.C.A. WONG SIU CHING SECONDARY SCHOOL PURE MATHEMATICS CALCULUS : CONTINUOUS FUNCTIONS ASSIGNMENT 15

Date	Name	Grade / Score
		/15

(3 marks)

1. Discuss the continuity of $f(x) = \begin{cases} \frac{1}{2}x+5 & \text{if } x \le 0\\ x+85 & \text{if } x > 0 \end{cases}$ at 0.



4. Let *f* be a function satisfying $|f(x) - f(y)| \le |x - y|$ for all $x, y \in \mathbf{R}$. Show that *f* is continuous on **R**. (3 marks)