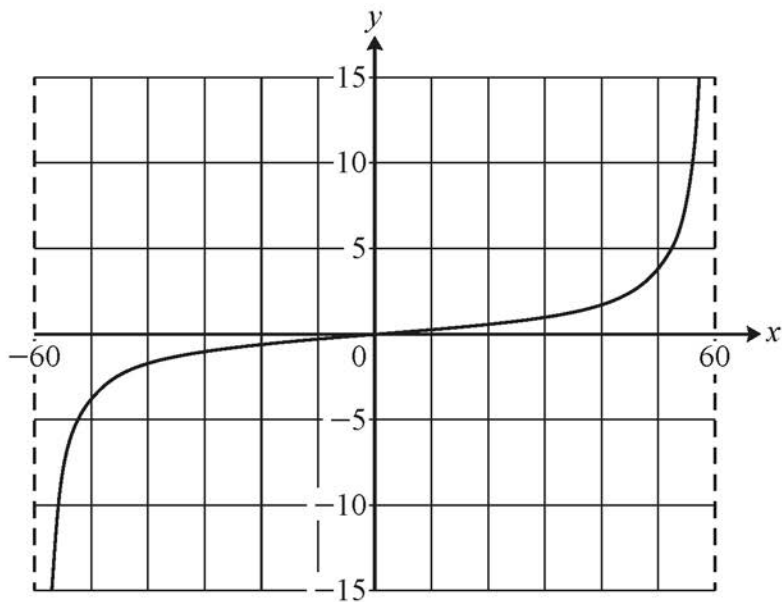


- 5 Part of the graph of $y = f(x)$ is shown below. The graph is the image of $y = \tan x^\circ$ after a stretch in the x -direction.



- (a) Find the equation of the graph. [2]
- (b) Write down the period of the function $f(x)$. [1]
- (c) **In this question you must show detailed reasoning.**

Find all the roots of the equation $f(x) = 1$ for $0^\circ \leq x^\circ \leq 360^\circ$. [3]