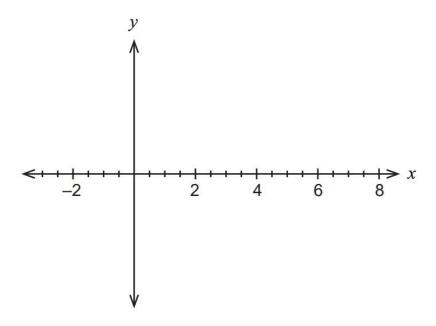
Consider the function $f(x) = \log_a (x - 1)$ where a > 1.

(a) On the axes below, sketch the graph of f(x), labelling important features. (3 marks)



- (b) Determine the value of m if f(m) = 1. (2 marks)
- (c) Determine the coordinates of the x intercept of f(x+b)+c, where b and c are positive real constants. (3 marks)