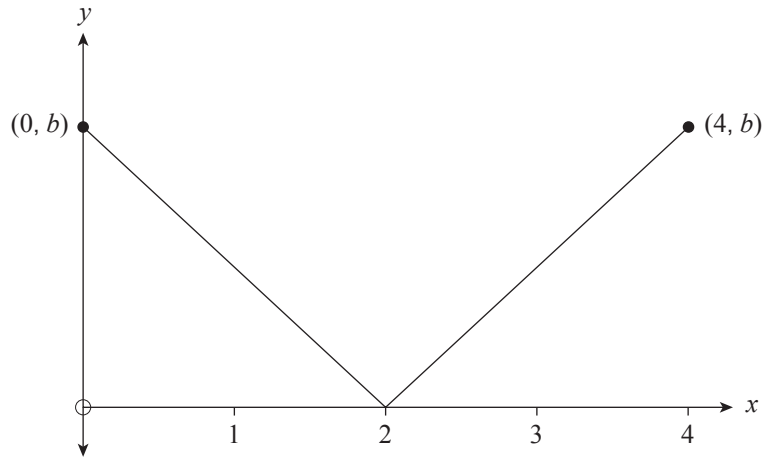


- (iii) Calculate the standard deviation (σ_x) of the distribution. Give your answer correct to one decimal place.



(2 marks)

- (b) The graph below represents a different continuous probability density function defined for $0 \leq x \leq 4$. Let this probability density function be $g(x)$.



Show that the value of b is $\frac{1}{2}$.



(2 marks)

