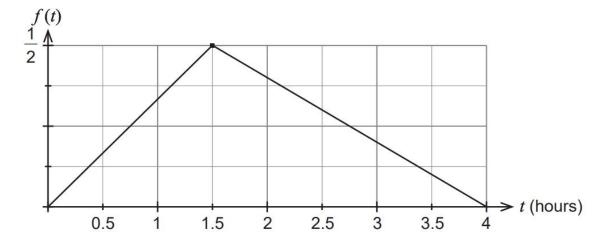
Question 3 (7 marks)

Waiting times for patients at a hospital emergency department can be up to four hours. The associated probability density function is shown below.



(a) What is the probability a patient will wait less than one hour? (3 marks)

(b) What is the probability a patient will wait between one hour and three hours? (4 marks)