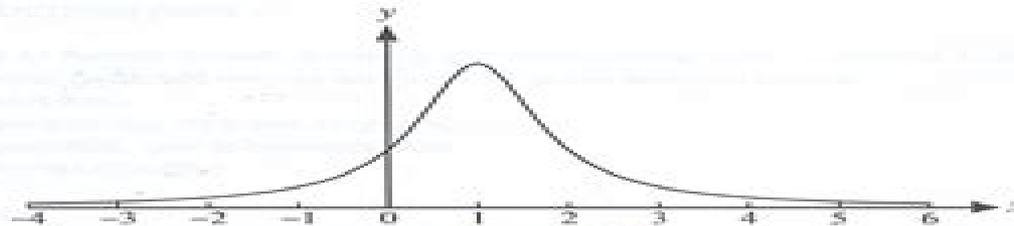


- 6 At a certain shop the demand for hair dryers has a Poisson distribution with mean 3.4 per week.
- Find the probability that, in a randomly chosen two-week period, the demand is for exactly 5 hair dryers. [3]
  - At the beginning of a week the shop has a certain number of hair dryers for sale. Find the probability that the shop has enough hair dryers to satisfy the demand for the week if
    - they have 4 hair dryers in the shop, [2]
    - they have 5 hair dryers in the shop. [2]
  - Find the smallest number of hair dryers that the shop needs to have at the beginning of a week so that the probability of being able to satisfy the demand that week is at least 0.9. [3]

7 (a)



The diagram shows the graph of the probability density function of a variable  $X$ . Given that the graph is symmetrical about the line  $x = 1$  and that  $P(0 < X < 2) = 0.6$ , find  $P(X > 0)$ . [2]

- (b) A flower seller wishes to model the length of time that tulips last when placed in a jug of water. She proposes a model using the random variable  $X$  (in hundreds of hours) with probability density function given by

$$f(x) = \begin{cases} k(2.25 - x^2) & 0 \leq x \leq 1.5, \\ 0 & \text{otherwise,} \end{cases}$$

where  $k$  is a constant.

- Show that  $k = \frac{4}{3}$ . [3]
- Use this model to find the mean number of hours that a tulip lasts in a jug of water. [4]

The flower seller wishes to create a similar model for daffodils. She places a large number of daffodils in jugs of water and the longest time that any daffodil lasts is found to be 290 hours.

- Give a reason why  $f(x)$  would not be a suitable model for daffodils. [1]
- The flower seller considers a model for daffodils of the form

$$g(x) = \begin{cases} c(a^2 - x^2) & 0 \leq x \leq a, \\ 0 & \text{otherwise,} \end{cases}$$

where  $a$  and  $c$  are constants. State a suitable value for  $a$ . (There is no need to evaluate  $c$ .) [1]

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