IB MATH SL 11 - PROBABILITY & DISTRIBUTIONS REVIEW

1. The probability distribution of a discrete random variable X is given by

$$P(X=x) = \frac{x^2}{14}, x \in \{1, 2, k\}, \text{ where } k \ge 0.$$

(a) Write down P(X = 2).

(1)

(b) Show that k = 3.

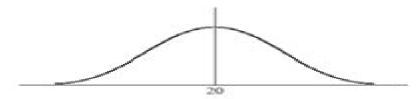
(4)

(c) Find E(X).

- (Total 7 marks)
- 2. A random variable X is distributed normally with a mean of 20 and variance 9.
 - (a) Find $P(X \le 24.5)$.

(3)

- (b) Let $P(X \le k) = 0.85$.
 - (i) Represent this information on the following diagram.



(ii) Find the value of k.

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