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**1.** The discrete random variable $X$ takes the values $-1$, 2, 3, 4 and 7 only.

Given that

$$P(X = x) = \frac{8 - x}{k} \text{ for } x = -1, 2, 3, 4 \text{ and } 7$$

find the value of $E(X)$

**(5)**

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**Question 1 continued**

**Q1**

**(Total 5 marks)**