

- (a) Show that $P(X = 3) = \frac{7}{15}$. [2]

[illegible]

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- This image shows a single page of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

(c) Find $E(X)$ and $\text{Var}(X)$.

[3]

This image shows a full page of white paper with horizontal dashed lines, typical of primary-ruled notebook paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.