

- (d) (i) Calculate the maximum and minimum gradients for your graph. [3]

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- (ii) Calculate the mean gradient and its uncertainty. [2]

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- (e) (i) Calculate the mean value of the intercept along with its uncertainty. Express these values to appropriate significant figures. [2]

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- (ii) The intercept on the count rate axis is the value of background radiation. Explain why this is so. [2]

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