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

It is now given instead that the progression is arithmetic.

- (b) (i)** Find the common difference of the progression in terms of  $\sin \theta$ . [3]

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

- (ii)** Find the sum of the first 16 terms when  $\theta = \frac{1}{3}\pi$ . [3]

[illegible]