10 (a) An arithmetic progression has a first term of 5 and a common difference of -3.

Find the number of terms such that the sum to n terms is first less than -200.

 $\{4\}$

- **(b)** A geometric progression is such that its 3rd term is equal to $\frac{81}{64}$ and its 5th term is equal to $\frac{729}{1024}$.
 - (i) Find the first term of this progression and the positive common ratio of this progression. [5]

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