

**5** The first, second and third terms of a geometric progression are  $2p + 6$ ,  $5p$  and  $8p + 2$  respectively.

(a) Find the possible values of the constant  $p$ . [3]

[illegible]

**(b)** One of the values of  $p$  found in **(a)** is a negative fraction.

Use this value of  $p$  to find the sum to infinity of this progression. [4]

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