10 **(a)** The first three terms of an arithmetic progression are x, $5x-4$ and $8x+2$. Find x and the common difference. [4]

(b) The first three terms of a geometric progression are y, $5y-4$ and $8y+2$.

(i) Find the two possible values of y. [4]

(ii) For each of these values of y, find the corresponding value of the common ratio. [2]

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