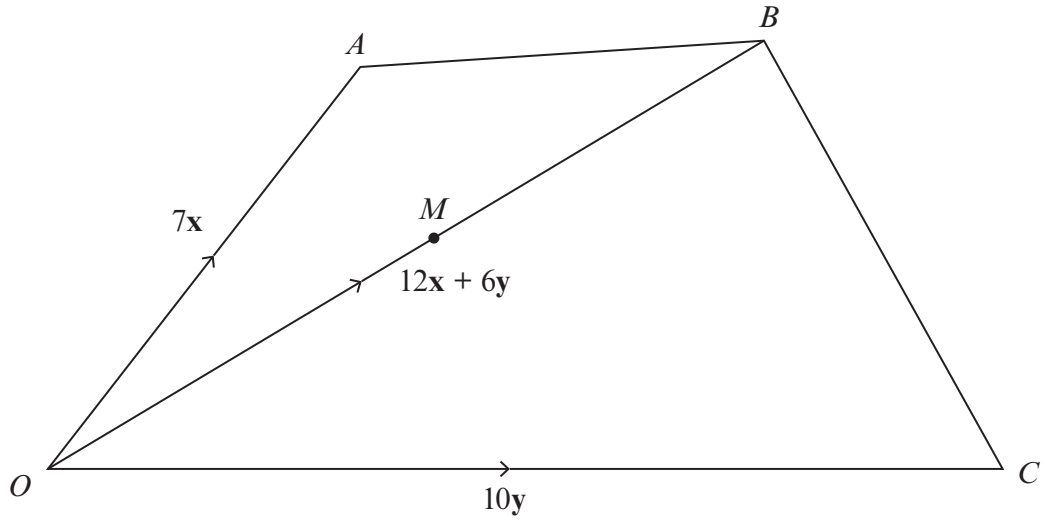
Examiner only

13. The diagram shows a quadrilateral *OABC*.



In the quadrilateral *OABC*, the vectors **OA**, **OB** and **OC** are given by **OA** = 7**x**, **OB** = 12**x** + 6**y** and **OC** = 10**y**.

(a) Express **AC** in terms of **x** and **y**.

.....

.....

[1]

(b) **M** is the mid-point of **OB**.
Express each of the following in terms of **x** and **y** in their simplest form.

(i) **MO**

.....

.....

.....

[1]

(ii) **MC**

.....

.....

.....

[1]