

The diagram shows a region which satisfies 3 inequalities.

Find these inequalities.

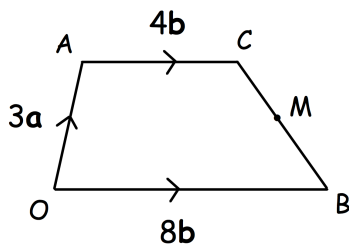
Make w the subject of

$$a(w - 2) = 5w + k$$

Write $0.\dot{8}\dot{1}$ as a fraction.

Give your answer in its simplest form.

OACB is a trapezium
M is the midpoint of BC.



Express in terms of \mathbf{a} and \mathbf{b} the vector

\vec{BM}