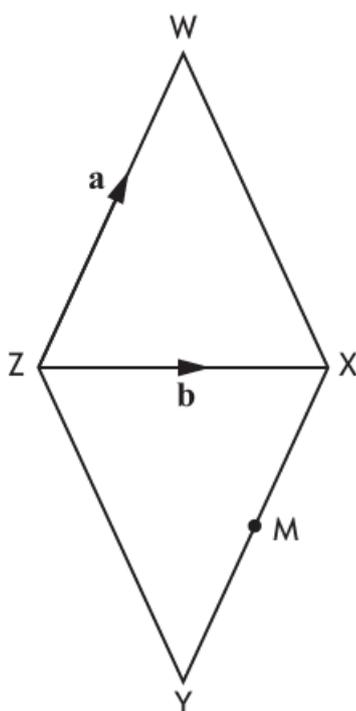


The diagram shows a rhombus WXYZ with a diagonal ZX drawn.



\vec{ZW} represents vector \mathbf{a} and \vec{ZX} represents vector \mathbf{b} .

(a) Express \vec{WX} in terms of \mathbf{a} and \mathbf{b} .

1

M is the mid-point of XY.

(b) Express \vec{WM} in terms of \mathbf{a} and \mathbf{b} .

Give your answer in its simplest form.

2

Answers:

(a) $\mathbf{b - a}$ or $\mathbf{-a + b}$

(b) $\mathbf{b - \frac{3}{2}a}$