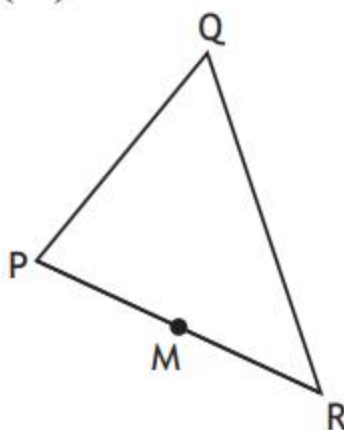


In triangle PQR,  $\vec{PR} = \begin{pmatrix} 6 \\ -4 \end{pmatrix}$  and  $\vec{RQ} = \begin{pmatrix} -1 \\ 8 \end{pmatrix}$ .



(a) Express  $\vec{PQ}$  in component form.

1

M is the midpoint of PR.

(b) Express  $\vec{MQ}$  in component form.

2

Answers:

(a)  $\begin{pmatrix} 5 \\ 4 \end{pmatrix}$

(b)  $\begin{pmatrix} 2 \\ 6 \end{pmatrix}$