National 5 Maths
SQA 2017 Paper 2
Question 8

National 5 Maths
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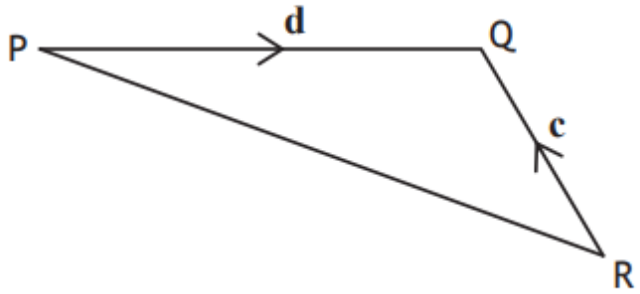
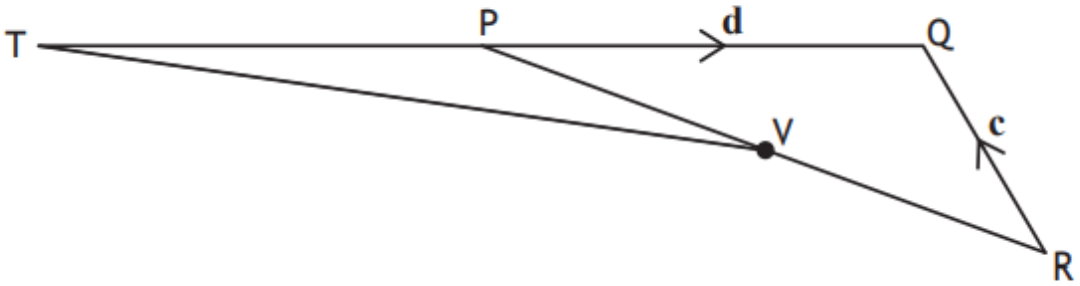
In the diagram below, $\overrightarrow{RQ}$ and $\overrightarrow{PQ}$ represent the vectors **c** and **d** respectively.



(a) Express $\overrightarrow{PR}$ in terms of **c** and **d**. **1**

The line QP is extended to T.



- TP = PQ
- V is the midpoint of PR

(b) Express $\overrightarrow{TV}$ in terms of **c** and **d**.
Give your answer in simplest form. **2**

Answers:

(a) $\underline{d} - \underline{c}$ (or equivalent)

(b) $\frac{3}{2}\underline{d} - \frac{1}{2}\underline{c}$ (or equivalent)