Solving simple vector problems

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Name:

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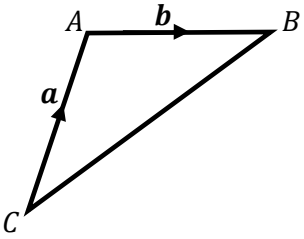
Find the following vectors in terms of $\boldsymbol{a}$ and $\boldsymbol{b}$

a) $\overrightarrow{AC}$

-a

b) $\overrightarrow{CB}$

a + b

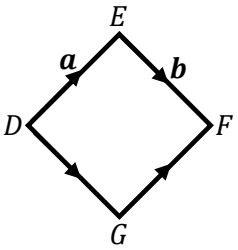


i) $\overrightarrow{DF}$

a + b

j) $\overrightarrow{FG}$

-a

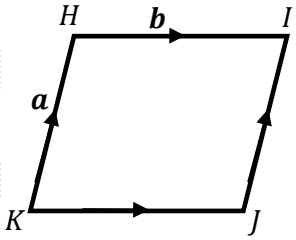


c) $\overrightarrow{KI}$

a + b

d) $\overrightarrow{JK}$

-b

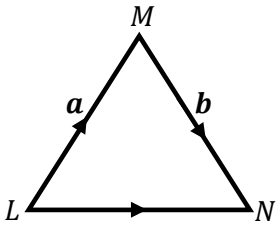


k) $\overrightarrow{LN}$

a + b

l) $\overrightarrow{NM}$

-b

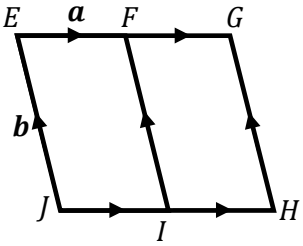


e) $\overrightarrow{HG}$

b

f) $\overrightarrow{JG}$

2a + b

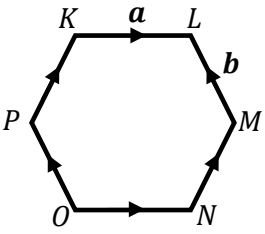


m) $\overrightarrow{KM}$

a - b

n) $\overrightarrow{NP}$

-a + b

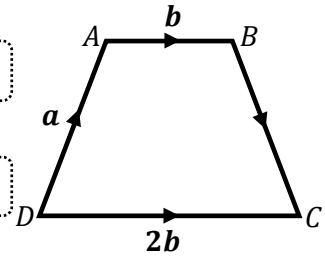


g) $\overrightarrow{AC}$

-a + 2b

h) $\overrightarrow{CB}$

a - b

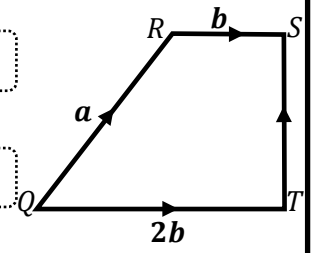


o) $\overrightarrow{RT}$

-a + 2b

p) $\overrightarrow{TS}$

a - b

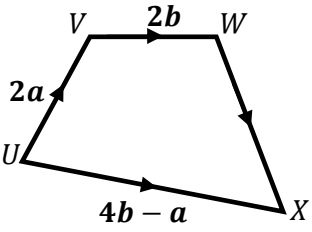


g) $\overrightarrow{VX}$

-3a + 4b

h) $\overrightarrow{XW}$

3a - 2b

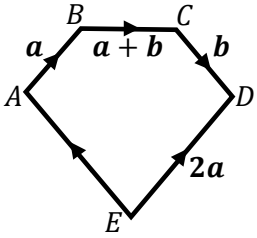


o) $\overrightarrow{DA}$

-2a - 2b

p) $\overrightarrow{EA}$

-2b

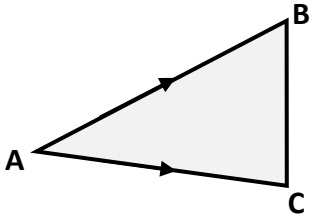


Exam question:

Consider the triangle ABC shown.

$\overrightarrow{AB}$ = **a + 3b** and $\overrightarrow{AC}$ = **4a – 2b**

Work out $\overrightarrow{BC}$ in terms of **a** and **b** in its simplest form



3a - 5b