

ACTION

RESPONSE

If, $a = \begin{pmatrix} -2 \\ 4 \end{pmatrix}$, $b = \begin{pmatrix} 3 \\ -1 \end{pmatrix}$, $c = \begin{pmatrix} 0 \\ -2 \end{pmatrix}$. Calculate:

Fluency



1. $a + b + c$

4. $b - 3c$

2. $2a + b$

5. $2a + 3b$

3. $a - b - c$

6. $2a - 3c$

Reasoning



OPRQ is a rectangle



$\vec{OP} = p$ and $\vec{OR} = r$.

Work out the vector, in terms of p and r , that represents:

a) \vec{PQ}

b) \vec{OQ}

c) \vec{QO}

d) \vec{RP}

Problem Solving



ABCDEFGH is a regular octagon.

$\vec{AB} = a$ and $\vec{DE} = d$.

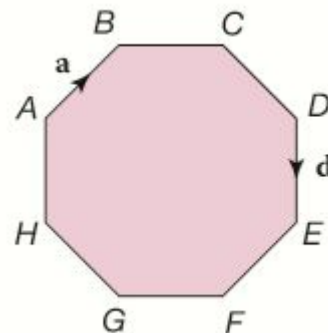
Work out the vectors in terms of a and d .

a) \vec{AH}

b) \vec{FE}

c) \vec{FD}

d) \vec{HB}



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