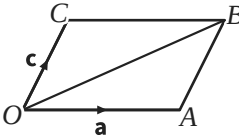
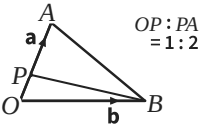
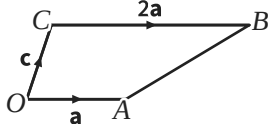
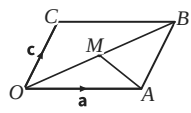
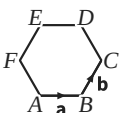
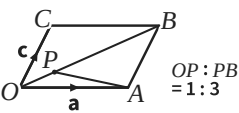
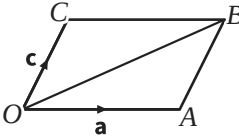
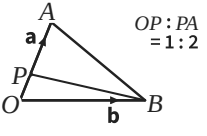
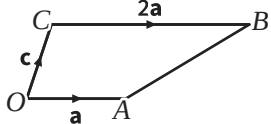
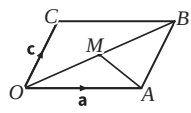
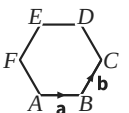
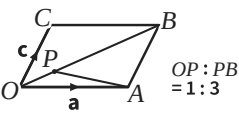


a Simplify $3(a - 2b) - 2(a - 4b)$ $a + 2b$ simplifying vector expressions	b Find x when $2x + 3a = 7a - 4b$ $x = 2a - 2b$ solving for a vector	c Find $\vec{BO}$  $-a - c$ a path against the arrows	d Find $\vec{PB}$  $-\frac{1}{3}a + b$ part of a side, then across
e Find $\vec{AB}$  $a + c$ a side as a multiple of a	f M is the midpoint. Find $\vec{AM}$  $-\frac{1}{2}a + \frac{1}{2}c$ to the midpoint of a diagonal	g The hexagon is regular. Find $\vec{CD}$  $-a + b$ a regular hexagon	h $\vec{OA} = 2a + b$, $\vec{OB} = 4a + 5b$. M is the midpoint of AB. Find $\vec{OM}$ $3a + 3b$ a midpoint from position vectors
i Is $-2a + 4b$ parallel to $a - 2b$? Yes: $-2(a - 2b)$ parallel, the other way	j $\vec{PQ} = 6a - 9b$, $\vec{RS} = 2a - 3b$. How many times as long as RS is PQ? 3 times how many times as long	k $(k + 1)a + 4b$ is parallel to $3a + 2b$. Find k $k = 5$ k inside a coefficient	l Find $\vec{AP}$  $-\frac{3}{4}a + \frac{1}{4}c$ a ratio along a diagonal

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