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HSC Worked Solutions

MX SP Band The diagram shows a grid of equally spaced lines. The vector $\overrightarrow{OH} = h$ and the vector $\overrightarrow{OA} = a$. The point *P* is halfway between *B* and *C*. Which expression represents the vector \overrightarrow{OP} ? A. $-\frac{1}{2}a - \frac{1}{4}h$ B. $\frac{1}{4}a - \frac{1}{2}h$ C. $a + \frac{1}{4}h$ D. $a + \frac{3}{4}h$ $\overrightarrow{OA} = a$. As $\overrightarrow{OH} = h$, then $\overrightarrow{OP} = \frac{3}{4}h$. $\therefore \overrightarrow{OP} = a + \frac{3}{4}h$

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