

# VECTORS

## EXAM QUESTION PRACTICE

**VECTORS** EXAM QUESTION PRACTICE

3. Vector Diagrams (3 Marking)

Diagram not necessarily drawn to scale

Express each vector in terms of  $\mathbf{a}$  and  $\mathbf{d}$ .

$\overrightarrow{AB} = \mathbf{a}$     $\overrightarrow{AD} = \mathbf{d}$     $\overrightarrow{AC} = \mathbf{c}$

Find in terms of  $\mathbf{a}$  and  $\mathbf{d}$ :

(i)  $\overrightarrow{BC}$

..... (1)

(ii)  $\overrightarrow{BD}$  where  $\delta$  is the midpoint of AC

..... (2)

**VECTORS** EXAM QUESTION PRACTICE

3. Vector Diagrams (3 Marking)

Diagram not necessarily drawn to scale

Express each vector in terms of  $\mathbf{a}$  and  $\mathbf{d}$ .

$\overrightarrow{AB} = \mathbf{a}$     $\overrightarrow{AD} = \mathbf{d}$     $\overrightarrow{AC} = \mathbf{c}$

Find in terms of  $\mathbf{a}$  and  $\mathbf{d}$ :

(i)  $\overrightarrow{BE}$

..... (1)

(ii)  $\overrightarrow{BD}$  where  $\delta$  is the midpoint of AC

..... (2)

Express your answer in simplest form

$\overrightarrow{BD} = \mathbf{a} + \mathbf{d}$

..... (3)

(iii)  $\overrightarrow{BE}$  where  $E$  is the midpoint of AC

..... (4)

Express your answer in simplest form

$\overrightarrow{BE} = \frac{1}{2}\mathbf{a} + \frac{1}{2}\mathbf{d}$

..... (5)

**11 Questions with comprehensive method shown + answers**

## Practice 9 4 Vectors Answers

**L Towne**



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