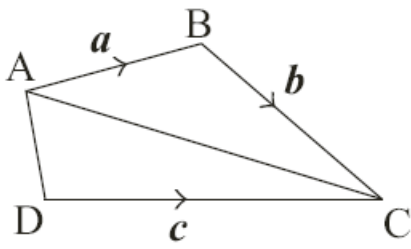


Ex. 1



Express each vector in terms of a , b or c .

- a \overrightarrow{AC} b \overrightarrow{CA} c \overrightarrow{AD} d \overrightarrow{BD}

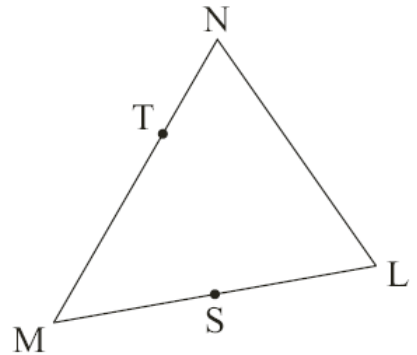
Ex. 2

$\overrightarrow{ML} = p$ and $\overrightarrow{LN} = q$.

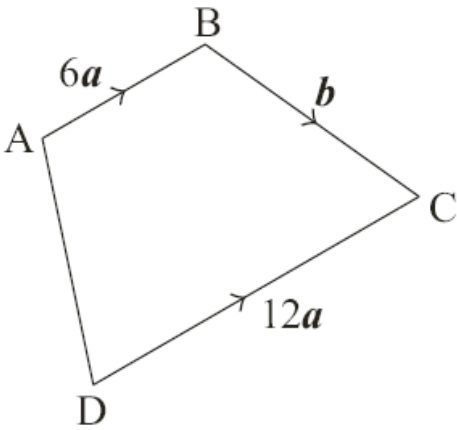
S is the midpoint of ML and T cuts MN in the ratio 2 : 1.

Express the following vectors in terms of p and q .

- a \overrightarrow{MS} b \overrightarrow{MN} c \overrightarrow{MT}
 d \overrightarrow{ST} e \overrightarrow{SN} f \overrightarrow{TL}



Ex. 3



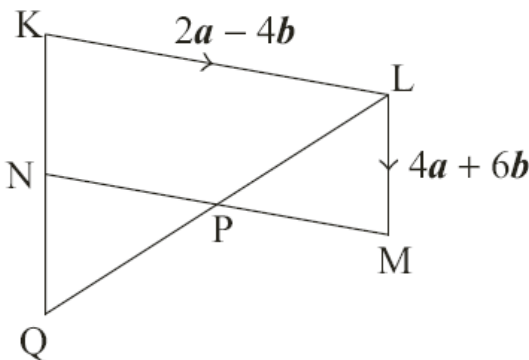
X cuts AB in the ratio 2 : 1.

Y cuts DC in the ratio 1 : 2.

Express the following vectors in terms of a and b .

- a \overrightarrow{XY} b \overrightarrow{AD}

Ex. 4



KLMN is a parallelogram.

P is the midpoint of MN.

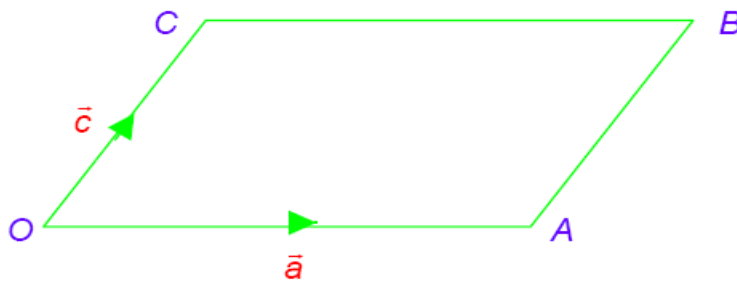
$\overrightarrow{PQ} = a + 5b$

Express the following vectors in terms of a and b .

- a \overrightarrow{KN} b \overrightarrow{LP} c \overrightarrow{LQ} d \overrightarrow{KQ}

Ex. 5

$OABC$ is a parallelogram where $\overrightarrow{OA} = \vec{a}$ and $\overrightarrow{OC} = \vec{c}$.

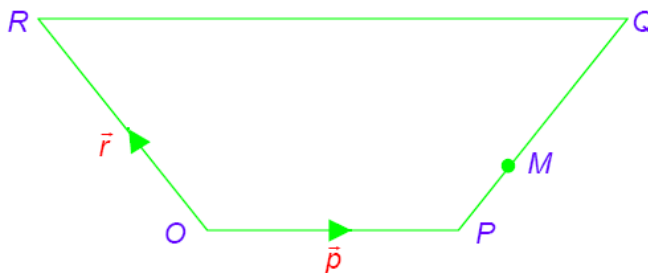


Find in terms of \vec{a} and \vec{c} only

- a. \overrightarrow{AB} b. \overrightarrow{BC} c. \overrightarrow{CA} d. \overrightarrow{BO} .

Ex. 6

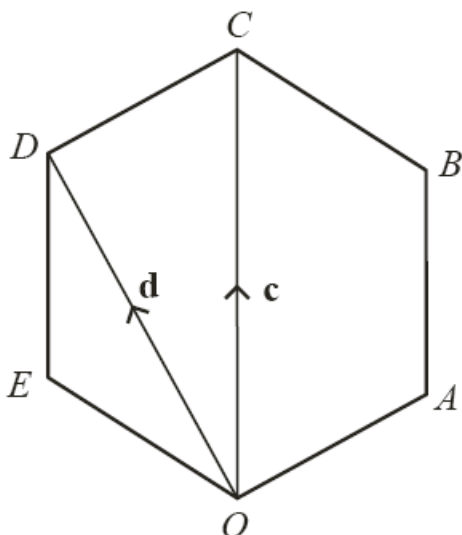
$OPQR$ is a trapezium where $RQ = 3OP$ and M is the point on PQ such that $PM = 2MQ$.



Given that $\overrightarrow{OP} = \vec{p}$ and $\overrightarrow{OR} = \vec{r}$ find in terms of \vec{p} and \vec{r} only

- a. \overrightarrow{PR} b. \overrightarrow{RQ} c. \overrightarrow{PQ} d. \overrightarrow{PM} e. \overrightarrow{MR}

Ex. 7



Find, in terms of \vec{c} and \vec{d} ,

- (i) \overrightarrow{DC} ,
(ii) \overrightarrow{OE} ,
(iii) \overrightarrow{DA} (iv) \overrightarrow{OB} (v) \overrightarrow{CE}