

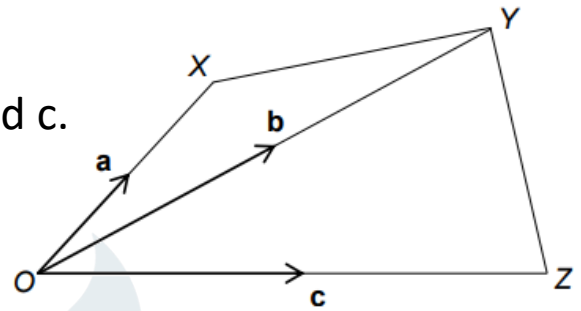
Name - \_\_\_\_\_

Start time - \_\_ : \_\_

End time - \_\_ : \_\_

Solve the following:

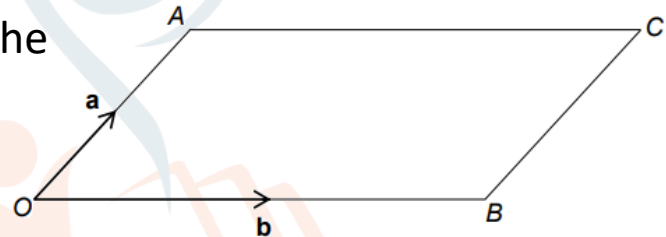
1. OXYZ is a quadrilateral. Write the following vectors in terms of a, b and c.



- a)  $\vec{ZO}$
- b)  $\vec{XY}$
- c)  $\vec{ZY}$
- d)  $\vec{XZ}$

$\vec{OX} = a$        $\vec{OY} = b$        $\vec{OZ} = c$

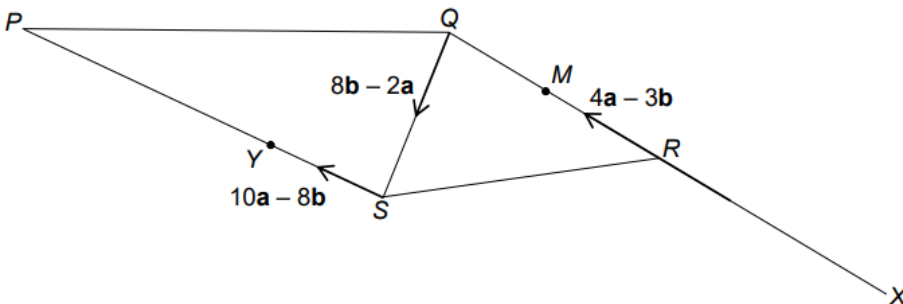
2. OACB is a parallelogram. Write the following vectors in terms of a and b.



- a)  $\vec{AO}$
- b)  $\vec{BC}$
- c)  $\vec{CO}$
- d)  $\vec{AB}$

$\vec{OA} = a$        $\vec{OB} = b$

3. PQRS is a quadrilateral.



$\vec{SY} = 10a - 8b$        $\vec{QS} = 8b - 2a$        $\vec{RM} = 4a - 3b$

RM = MQ SY : YP = 1 : 2 QRX is a straight line. XS is parallel to RP. Work out XS : RP Give your answer in the form n : 1