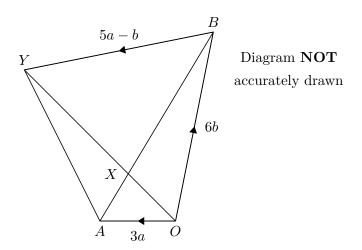
Chapter 1

GCSE Revision Questions - Vectors

1.



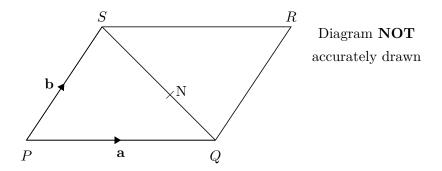
OAYB is a quadrilateral. $\overline{OA} = 3\mathbf{a}$ and $\overline{OB} = 6\mathbf{b}$.

(a) Express
$$\overline{AB}$$
 in terms of **a** and **b**. (1)

X is the point on AB such that AX : XB = 1 : 2 and $\overline{BY} = 5\mathbf{a} - \mathbf{b}$.

(b) Prove that
$$\overline{OX} = \frac{2}{5}\overline{OY}$$
. (1)

2.



PQRS is a parallelogram. N is the point on SQ such that SN:NQ=3:2

$$\overline{PQ} = \mathbf{a}$$

$$\overline{PS} = \mathbf{b}$$

(a) Write down, in terms of \mathbf{a} and \mathbf{b} , an expression for \overline{SQ} .

 \overline{SQ}

(b) Express \overline{NR} in terms of **a** and **b**. (3)

 \overline{NR}