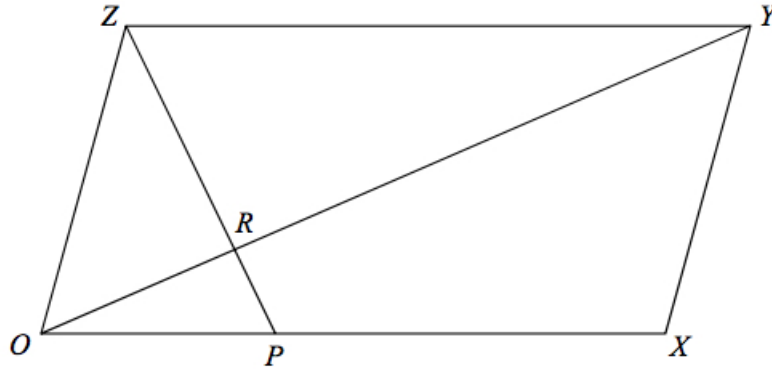


Dr Oliver Mathematics
Worked Examples
Vectors 1

From: Edexcel 2019 November Paper 3H (Calculator)

1. $OXYZ$ is a parallelogram.

(5)



$$\overrightarrow{OX} = \mathbf{a}.$$
$$\overrightarrow{OY} = \mathbf{b}.$$

P is the point on OX such that $OP : PX = 1 : 2$.
 R is the point on OY such that $OR : RY = 1 : 3$.

Work out, in its simplest form, the ratio $ZP : ZR$.
You must show all your working.