

Simultaneous Equation

Q Solve the simultaneous equations

$$\begin{aligned}3x + y &= 95, \\x + y &= 29.\end{aligned}$$

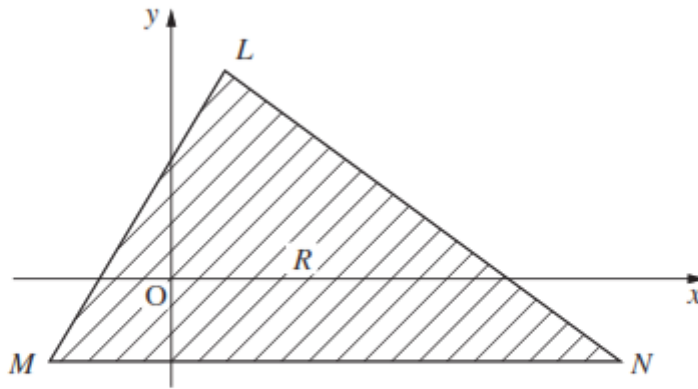
Q Solve the simultaneous equations

$$\begin{aligned}3x &= 7y, \\12y &= 5x - 1.\end{aligned}$$

Q Solve the simultaneous equations

$$\begin{aligned}2x - y &= 16, \\3x + 2y &= 17.\end{aligned}$$

Q The diagram below shows triangle LMN .



The equations of the lines LM and LN are $2y = 3x + 5$ and $x + 4y = 24$ respectively.

- (a) Solve the simultaneous equations $x + 4y = 24$,
 $2y = 3x + 5$.

Hence write down the coordinates of L .

Q Nil and Yasmin buy some pens and notebooks from the same shop.

Anil buys 3 pens and 2 notebooks for \$4.80 .

Yasmin buys 5 pens and 4 notebooks for \$9.00 .

- (i) Form a pair of simultaneous equations to represent this information.

[1]

- (ii) Solve the simultaneous equations to find the cost of a pen and the cost of a notebook.

Answer Cost of pen = \$

Cost of notebook = \$... M.JAWAD AMIN