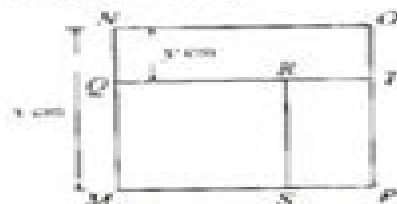


(b) Given that  $M = \begin{pmatrix} 0 & 1 \\ 3 & 0 \end{pmatrix}$  and  $N = \begin{pmatrix} 2 & 1 \\ 3 & 2 \end{pmatrix}$

(i) calculate  $N^2$  and  $MN$

(ii) find the value of the scalar  $k$  if  $N^2 + kN = MN$

13. In the figure below,  $MNOP$  and  $MQRS$  are squares.  $MN = x$  cm and  $QN = y$  cm.



- (a) If the area of the rectangle  $QNOT$  is  $1 \text{ cm}^2$  less than area of  $MQRS$ , show that  $y^2 - 3xy + x^2 = 1$ .
- (b) Given that  $y = 3$  cm, find the appropriate value of  $x$ .
- (c) Calculate the area of rectangle  $PTRS$ .
14. The following table shows the marks scored by 36 students in a Mathematics test.

| Marks | Frequency |
|-------|-----------|
| 30-39 | 4         |
| 40-49 | 6         |
| 50-59 | 3         |
| 60-69 | 12        |
| 70-79 | 2         |
| 80-89 | 5         |
| 90-99 | 4         |

- (a) Calculate to 2 decimal places the
- (i) mean mark.
- (ii) median mark.
- (b) Find the probability that a student picked at random scored below 50.

15. (a) Copy and complete the table below for  $y = (3x + 1)(2x - 5)$ .

| $x$      | -1 | 0 | 1   | 2 | 3  | 4 |
|----------|----|---|-----|---|----|---|
| $3x + 1$ | -2 |   | 4   |   | 10 |   |
| $2x - 5$ | -7 |   | -3  |   | 1  |   |
| $y$      | 14 |   | -12 |   | 10 |   |

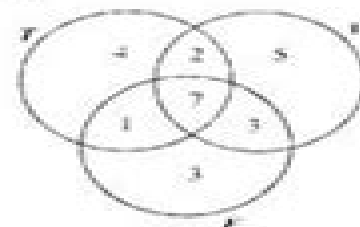
- (a) Use your completed table to draw a graph of  $y = (3x + 1)(2x - 5)$  with a scale of 2 cm for 1 unit on the  $x$ -axis and 2 cm for 5 units on the  $y$ -axis.
- (b) Draw on the same axes the line  $y = 5$ .
- (c) Use the two graphs in (b) and (c) to solve the equation  $6x^2 - 13x - 10 = 0$
16. (a) The image of  $P(6, 3)$  after a reflection is  $P'(3, 6)$ .
- (i) Plot the points  $P$  and  $P'$  on a graph paper.
- (ii) Construct the line of reflection. Hence find the equation of the line of reflection.
- (b) The image of  $ABCD$  under a matrix of transformation  $\begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix}$  is  $A'B'C'D'$ . The coordinates of the image are

7. The manager of a cinema hall wishes to divide the seats available into two classes executive and ordinary. There are not more than 120 seats available. There must be at least twice as many ordinary seats as there are executive seats. Executive seats are priced at Shs 15,000 each. Ordinary seats are priced at Shs 10,000 each. At least Shs 1,000,000 should be collected at each show to meet the expenses.

- (a) Taking  $x$  as the number of executive seats and  $y$  as the number of ordinary seats, write down five inequalities from the given information.
- (b) Represent the inequalities on a graph.
- (c) From your graph, find the number of seats of each kind which must be sold to give the maximum profit.

## 2016 PAPER TWO SECTION A

1. Given that  $h(x) = 3x - 2$ , find the value of
- (i)  $h(-2)$ .
- (ii)  $x$  when  $h(x) = 7$
2. Josephine obtained 95% in a test which was marked out of 80 marks. How many marks did she score out of 80?
3. The Venn diagram below shows the number of students who play tennis ( $T$ ) volleyball ( $V$ ) and football ( $F$ ).



Find:

- (a) the number of students who play only one game.
- (b)  $n(V \cup F \cap T)$
4. A straight line passes through the points  $(-2, 5)$  and  $(2, -3)$ . Determine the equation of the line.
5. The volume of a sphere is  $2000 \text{ cm}^3$ . Calculate the volume of a similar sphere whose radius is half of that of the given sphere.
6. Given that  $\frac{a+b\sqrt{2}}{c} = \frac{4+\sqrt{2}}{4-\sqrt{2}}$ , find the values of  $a$ ,  $b$  and  $c$ .
7. The coordinates of points  $A$  and  $B$  are  $(-4, -5)$  and  $(x, y)$  respectively. The coordinates of the midpoint

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