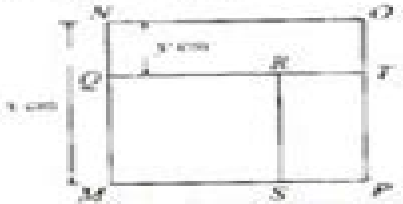
(b) Given that $M = \begin{pmatrix} 0 & 1 \\ 3 & 0 \end{pmatrix}$ and $N = \begin{pmatrix} 2 & 1 \\ 3 & 2 \end{pmatrix}$

(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 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

17. 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 Shs10,000 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

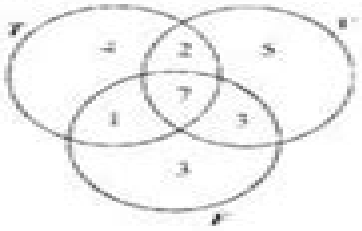
1. Given that $h(x) = 3x - 2$, find the value of

(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 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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Björn Risch

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Table of Contents O Level Uneb Past Papers And Solutions

1. Understanding the eBook O Level Uneb Past Papers And Solutions
    - The Rise of Digital Reading O Level Uneb Past Papers And Solutions
    - Advantages of eBooks Over Traditional Books
2. Identifying O Level Uneb Past Papers And Solutions
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an O Level Uneb Past Papers And Solutions
    - User-Friendly Interface
4. Exploring eBook Recommendations from O Level Uneb Past Papers And Solutions
    - Personalized Recommendations
    - O Level Uneb Past Papers And Solutions User Reviews and Ratings
    - O Level Uneb Past Papers And Solutions and Bestseller Lists
5. Accessing O Level Uneb Past Papers And Solutions Free and Paid eBooks

- O Level Uneb Past Papers And Solutions Public Domain eBooks
- O Level Uneb Past Papers And Solutions eBook Subscription Services
- O Level Uneb Past Papers And Solutions Budget-Friendly Options

6. Navigating O Level Uneb Past Papers And Solutions eBook Formats
   - ePub, PDF, MOBI, and More
   - O Level Uneb Past Papers And Solutions Compatibility with Devices
   - O Level Uneb Past Papers And Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of O Level Uneb Past Papers And Solutions
   - Highlighting and Note-Taking O Level Uneb Past Papers And Solutions
   - Interactive Elements O Level Uneb Past Papers And Solutions
8. Staying Engaged with O Level Uneb Past Papers And Solutions
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers O Level Uneb Past Papers And Solutions
9. Balancing eBooks and Physical Books O Level Uneb Past Papers And Solutions
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection O Level Uneb Past Papers And Solutions
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine O Level Uneb Past Papers And Solutions
    - Setting Reading Goals O Level Uneb Past Papers And Solutions
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of O Level Uneb Past Papers And Solutions
    - Fact-Checking eBook Content of O Level Uneb Past Papers And Solutions
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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