NAME: STREAM
END OF TERM II EXAMINATIONS S.2 MATHEMATICS 1 Hour 30 Minutes
 INSTRUCTIONS: Attempt all questions in this paper. Use only the spaces provided to answer the questions.
1. The bearing of Kamuwunga from Lutengo is 087 ⁰ . What is the bearing of Lutengo from Kamuwunga?
(04 marks) 2. When designing a cam for a pump, the expression $\pi\left(\frac{r}{2}\right)\left(\frac{4}{3\pi r^2}\right)$ is used. Simplify the expression
(03 marks) 3. In the figure below, drop a perpendicular from ${\it P}$ onto the line segment ${\it AB}$.
. P
$A \longleftarrow B$

(03 marks)

$\frac{y+2x^2y}{y}$.	Simplify $\frac{4x^3y - 3x^3y + 2x^2y}{2x^2y}$	3.
(02 mark) decimal base.	Convert 122 _{three} to dec	4. (
(03 marks) If $\frac{1}{3}$ an acre of land at Kakiri. He divides the land into plots each measuring $\frac{1}{8}$ each plot at Shs.4 500 000, how much money does he receive from the sale	· ·	5.
(04 marks) man's salary decreased from Shs.750 000 to Shs.600 000. Calculate the se in the man's salary.		6.
(02 marks) $P = \{-3, -2, -1, 0, 1, 2, 3\}$ and $E = \{1, 4, 9\}$, draw a diagram to represent the a square of "between the two sets.		7.
(03 marks) relation ship can be obtained from the two sets? (01 mark)	(b) What other rela	

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