

EKURHULENI NORTH DISTRICT

GRADE 10

MATHEMATICS P 1

MEMORANDUM

NOVEMBER 2022

NOTE:

- If a candidate answered a question TWICE, mark only the FIRST attempt.
- If a candidate crossed out an answer and did not redo it, mark the crossed out answer.
- Consistent Accuracy applies to ALL aspects of the marking guidelines.
- Assuming values/answers in order to solve a problem is unacceptable.
- Please accept the alternatives that are mathematically correct, not all alternatives were included.

Mathematics Grade 10 Paper 1 For November 2014

Dave Nagel

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exercise 9 an optimal control problem with an analytical solution we consider the problem of maximizing a linear function of the final state of a linear system subject to bounds on the inputs maximize $\mathbf{d}^T \mathbf{x}_n$ subject to $\mathbf{u}^T \mathbf{u} \leq 0$ $\mathbf{n} \times 1$ $\mathbf{np} \times 1$ $\mathbf{0} \leq \mathbf{u} \leq \mathbf{1}$ where \mathbf{x} and \mathbf{u} are related via the recursion $\mathbf{x}_{t+1} = \mathbf{A} \mathbf{x}_t + \mathbf{B} \mathbf{u}_t$

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