NATIONAL SENIOR CERTIFICATE: MATHEMATICS: PAPER I - MARKING GUIDELINES

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### NOTE:

- If a candidate answers a question more than once, only mark the FIRST attempt.
- · Consistent Accuracy applies in all aspects of the marking memorandum.

### SECTION A

## QUESTION 1

(a)(1)	$px^{2} + 2x - 3 = 0$ $x = \frac{(-2) \pm \sqrt{(2)^{2} - 4(p)(-3)}}{2(p)}$ $x = \frac{-2 \pm \sqrt{4 + 12p}}{2p}$ $x = \frac{-2 \pm 2\sqrt{1 + 3p}}{2p}$ $x = \frac{-1 \pm \sqrt{1 + 3p}}{p}$	use of quadratic formula $x = \frac{-2 \pm \sqrt{4 + 12\rho}}{2\rho}$ simplified solution
(a)(2)	Non-real roots for: $1+3p<0$ $p<-\frac{1}{3}$	$\Delta < 0$ $\rho < -\frac{1}{3}$ No marks for $\Delta > 0$
(b)	$\sqrt{x-2} + 4 = x$ $x^{2} - 9x + 18 = 0$ $(x-2) = (x-4)^{2}$ $x-2 = x^{2} - 8x + 16$ $x=6 \text{ or } x=3$ $\text{n/v for } x=3$	Isolate surd $x^2 - 4x + 4$ $x^3 - 8x + 16$ factors answer with selection
(c)	$(x+3)(x-1) \ge 0$ Crit. values: $-3:1$ $x \le -3$ or $x \ge 1$	Number line/graph $x \le -3$ or $x \ge 1$

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# **Mathematics Pfinal Examination For Grade12014 Memo**

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# **Mathematics Pfinal Examination For Grade12014 Memo:**

Scientific and Technical Aerospace Reports, 1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Monthly Catalogue, United States Public Documents, 1994 **Technical Information Database** The Schenley Experiment Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh's first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before Brown v Board of Education Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace s reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America's oldest public schools Congressional Record United States. Congress, 2012 Monthly Catalog of United States Government Publications ,1994 Subject Guide to Books in Print ,1991

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