

Calendar Term 4, 2008	
<b>October</b>	
14	Preparing to be a Head Teacher Long Inservice starts
16	Annual General Meeting, MANSW Office
<b>November</b>	
25	Preparing to be a Head Teacher Long Inservice finishes
29	HSC Solutions Day, MANSW Office

**Annual General Meeting**  
MANSW Annual General Meeting will be held at the MANSW Office  
Thursday 16 October 2008  
7.00 p.m.

## From the President

Welcome to Term 4, 2008. As you might imagine, I am writing this report in late Term 3, and we are just days away from our Annual MANSW Conference held this year at the Novotel at Northbeach, Wollongong. As usual MANSW will produce the conference addition of our journal *Reflections* and for the benefit of all members I do ask presenters to please consider offering something from their presentation. This is an appropriate opportunity to recognize the wonderful efforts of our Conference Edition editor; Judy Anderson. Judy has been producing the Conference Edition of *Reflections* for many years. Judy was editing this journal long before she took up her current position of AAMT President. We are truly indebted to Judy; on behalf of all MANSW members who look forward to this special edition of *Reflections*, I say thank you Judy—your countless hours and fabulous editorial expertise have been highly valued and will be missed.

During this Term 4 there is a very important website that we all need to be visiting: <http://www.ncb.org.au>. On this site we find the very latest information about the National Curriculum. Here is an extract that you will find

under Draft Principles: 'the curriculum should make clear to teachers what has to be taught, and to students what they should learn and what achievement standards are expected of them in each stage of schooling'. This gives us some idea of the impact that a National curriculum will have on our classrooms. The National Curriculum Board (NCB) has hosted forums around the country seeking input from representatives of professional bodies; for example, late in Term 3, on 15 September, I participated on behalf of MANSW at the Sydney forum and there will be another forum in October. Also on the NCB website under '2008 Curriculum Writing' you will see that the NCB is currently preparing a position paper that will be released in October, for a three month feedback period. If we wait until the 2009 school year before we seriously consider the position paper it will be too late. MANSW will be responding on behalf of members, so please make your opinions count. Send an email to us at [office@mansw.nsw.edu.au](mailto:office@mansw.nsw.edu.au) or contact our office by telephone. This affects all stages of Mathematics school education and MANSW needs to hear from people who specialize in primary mathematics, secondary mathematics, or both. While we are considering the activities of NCB, it is reassuring to know that all MANSW members have a second body looking after our interests, and that's AAMT. MANSW is working closely with AAMT to ensure that the NSW point of view is taken into account when AAMT responds to the NCB position paper.

Early in Term 3 this year I mentioned that MANSW will soon be turning 100 years old. Our special birthday is in 2010, so we're already making plans to celebrate with a publication of *The stories we tell*. So, whether it's a story that you've heard before and use in your class, or an original story that you've made up, we want to hear from you. This is a K–12, urban and rural project, so please get involved and send in your contribution.

I would like to mention 'Investigating: Maths', organized superbly each year by Sue Thomson. Late in Term 3 this year it was my pleasure to present awards and shake hands with over 40 young mathematicians. We had to keep works of

the first-place getters because these will be wrapped up and sent off to the national competition for judging. The students who engage in this competition are highly motivated by mathematics. I urge all MANSW members working in Primary or Secondary schools to invite your students to enter in 2009.

The 2008 MANSW AGM will take place at Kent Road office on Thursday 16 October at 7 p.m. Current members are invited to attend. Our guest speaker this year is Peter Gould. Members will know Peter from his insightful articles in the journal 'Curriculum Support', published by Curriculum K-122 Directorate of the NSW Department of Education and Training.

If you'd like to be a part of the MANSW executive, or sit in on one of our committees, such as PAM or an editorial committee, then 2009 is an exciting time to join. 2009 promises to be anything but an ordinary year. For more information about our 2008 AGM, or positions on the executive and various committees, please contact our MANSW Office staff.

DAVID KEANAN-BROWN

---

## HSC Solutions Workshop

Members are cordially invited to attend a workshop on **Saturday 29 November** at the MANSW Office to assist in the compiling of solutions to the 2008 Mathematics papers.

At the workshop we will work in small groups, with each group being responsible for compiling a single paper. Bringing your own set of solutions (to the paper you would like to work on at least) would help.

The workshop will run from 10 a.m. to 3 p.m, with lunch provided.

If you are unable to attend on the day, you can still help by:

- sending in solutions to a question or questions from one of the papers; or
- sending in a set of solutions for one (or several) of the papers.

The efforts of the volunteers who attend the workshop and the members who send in their solutions are greatly appreciated. The HSC Solutions Books are an invaluable resource for teachers, students, and the Association.

If you can help in any way, please notify Bernice Beechey at the MANSW Office by telephone (02) 9878 1487 or fax (02) 9878 1675. Your solutions

can be sent to the office by fax (02 9878 1675) or by email (office@mansw.nsw.edu.au).

Solutions will be available to members at the HSC and SC Feedback Day in February 2009.

---

## Student Services

### Mathsearch Results

We are pleased to announce the results of Mathsearch and congratulate the students who submitted entries to this very extending and interesting mathematical investigation that is designed to lead them into areas of mathematics not covered in the syllabus. The results are included in the newsletter.

### National Mathematics Summer School

The results of the Mathsearch competition and member nominations have been forwarded to the director of the National Mathematics Summer Schools. Students offered positions at the summer school should receive their invitation shortly.

### Luna Park

There are only a few vacancies for students at Luna Park remaining for 2008. Contact the MANSW office should you want to be included. Please take into account that Luna Park will now only be open on Mondays and Fridays during school term until the end of the year

### The Stories We Tell

All contributions to our centenary celebration publication need to be received by the office before the end of this year. Keep the contributions coming!

---

## Preparing to be a Head Teacher

There are a few places left in this inservice course. The course consists of 7 two-hour sessions on Tuesday evenings for mathematics head teachers and those aspiring to become head of a mathematics department. A variety of guest speakers will present the sessions.

The full flier was in the last newsletter and can be found on the MANSW website [www.mansw.nsw.edu.au](http://www.mansw.nsw.edu.au).

If you would like to enrol for this course, which starts on Tuesday 14 October, contact the MANSW Office.

---

---

# Investigating: Mathematics

## Corrections to Results

### Year 4 Small Group First

St Joseph's Primary School

*Queenie the Melbourne Zoo elephant*

Gurkirat Sidhu, Anne Lovegrove, Shaun McManus, Blake Lloyd, Sophia Manahan, Jack Criss

### Year 6 Small Group Merit

Seven Hills North Public school

*3, 6, 9 . . . Find the way they rhyme*

Jessica Stratton, Kara Whitehouse, Jasmine Granados, Jarad Wyton, Sandeep Das, Andrew Cheong

---

## Member of the Month

This month's lucky winner is Paul Steenson of Warriewood. Congratulations, please contact the MANSW Office to claim your book-voucher prize.

---



---

**Copy for Newsletter No. 8 is due by 31/10.  
Publication date is 17/11.**

---



---

# Errata for MANSW 2007 HSC Solution Books

Please note the following errata in your copies of past MANSW solution books. The corrected solutions will appear in the 2008 books (and in subsequent years).

If you or your students notice errors in any of the MANSW Solution Books, please notify the MANSW Office by email, fax, or mail so that the relevant corrections can be made. Thanks to Chris Horley and Cyril Quinlan for noting the errors below.

*Note:* Page numbers below refer to the 2007 course-specific Solution Books, not the lilac-covered versions issued to members in February.

### 1. Mathematics Extension 2: 2007 HSC Question 2(a)(iii) (page 9)

Change the subtraction sign in the top line of the last fraction to an addition sign. The first line of the solution would now read:

$$\frac{z}{w} = \frac{4+i}{4-i} \times \frac{4+i}{4+i}$$

### 2. Mathematics Extension 2: 2007 HSC Question 2(c) (page 9)

The point (0, 0) must be excluded from the description of the locus (since  $z \neq 0$ ). The last line of the solution would now read:

$\therefore$  The locus of  $P$  as  $z$  varies is the circle, centre (1, 0) with radius 1, excluding the origin.

### 3. Mathematics Extension 2: 2007 HSC Question 2(d)(iii) (page 9)

In the last line of the solution, remove the subscript 1 from the leading term. The last line of the solution would now read:

$$\text{i.e. } z^2 - az + a^2 = 0.$$

### 4. Mathematics Extension 2: 2007 HSC Question 4(d)(i) (page 13)

In the seventh line of the solution, replace the  $a$  with  $-a$ . The seventh line of the solution would now read

$$\therefore -a^2 = r$$

and the solution continues correctly from this point.

**2008 MATHSEARCH RESULTS  
IN ALPHABETICAL ORDER WITHIN AWARDS**

<i>Name</i>	<i>Year</i>	<i>School</i>
<b>MEDALS</b>		
Parth Girdhar	11	James Ruse High School
Stacey Law	10	James Ruse High School
Vickie Lee	9	Pymble Ladies' College
Kevin Pan	11	James Ruse High School
Sonya Shi	11	North Sydney Girls' High
<b>DISTINCTION CERTIFICATES</b>		
Wei Yung Chen	11	James Ruse High School
Matthew Cooper	11	Blue Mountains Grammar
Raveen de Silva	10	James Ruse High School
Yashvini Janakan	11	North Sydney Girls' High
Fangzhi Jia	11	NBSC—Freshwater Senior Campus
Thomas Lacy	11	Sydney Grammar School
Bonnie Liu	11	James Ruse High School
Fiona Naughton	11	North Sydney Girls' High
Shiva Subramanyam	11	James Ruse High School
David Vasak	10	Sydney Grammar School
<b>MERIT CERTIFICATES</b>		
Steven Carr	11	Shore School
Jodic Chan	9	James Ruse High School
Geoffrey Chang	11	Sydney Grammar School
Ameya Hanamshet	11	James Ruse High School
Eliot Hoving	11	Blue Mountains Grammar
Jeffrey Ka Hinn Li	11	Carlingford High School
Vivian Li	10	Pymble Ladies College
Richard Lin	11	Carlingford High School
Deva Rajan Nirthanakymaran	11	James Ruse High School
Gabriel Pender	11	North Sydney Girls' High
Tianyum Pu	11	North Sydney Girls' High
Yiming Song	11	NBSC—Freshwater Senior Campus
David Tian	11	James Ruse High School
SongYin Wang	11	The Illawarra Grammar School
Samantha Wong	11	James Ruse High School
Alex Yang	11	St Paul's Grammar
Zhou Joe Yu	11	Kogarah High School
Don Zhang	11	James Ruse High School