

### Rotating curves [40 marks]

#### 1. [Maximum marks: 15]

This question asks you to investigate the rotation of a coordinate point.

(a) The line  $y = 0$  is rotated  $\theta$  radians anti-clockwise about the origin. Find the equation of the new line in terms of  $y$ ,  $x$  and  $\theta$ . [2]

(b) If we have a coordinate point  $(a, b)$  rotated  $\theta$  radians anti-clockwise about the origin we can find the  $x, y$  coordinates of the new point by using the following parametric equations:

$$x = a\cos\theta - b\sin\theta \quad (1)$$

$$y = a\sin\theta + b\cos\theta \quad (2)$$

Rotate the point  $(1, 1)$  anti-clockwise around the origin by  $\frac{\pi}{6}$ ,  $\frac{\pi}{4}$  and  $\frac{\pi}{2}$  radians. Give your answers as coordinates. [4]

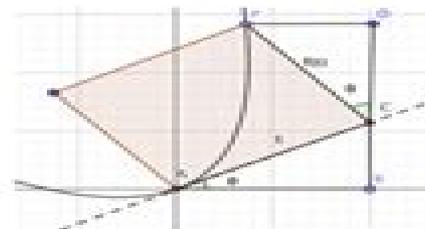
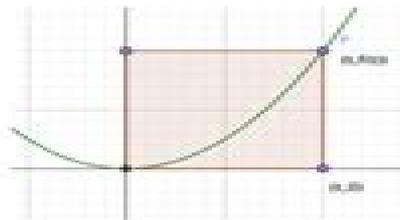
(c) Draw a sketch of your points. What is the locus of points for this transformation? [4]

(d) By squaring both equations (1) and (2) obtain an equation in terms of  $x$  and  $y$  only. What is the geometrical significance of this equation? [5]

#### 2. [Maximum marks: 25]

This question expands this method to rotating a curve. We can derive the general equation as follows:

We start with a function  $f(t)$ , and draw a rectangle centred at the origin through point  $P: (t, f(t))$ . We then rotate the curve and the rectangle by  $\theta$  radians anti-clockwise from the horizontal. Angles  $ABC$  and  $PCD$  are right angles.



(a) Explain why angle  $CAB$  and  $PCD$  are equal. [2]

# Ib Math Paper 3 2014

**Florentin Smarandache, Jianhua  
Dai, Chunxin Bo**



### **Ib Math Paper 3 2014:**

Collected Papers, Volume VII Florentin Smarandache, 2022-02-01 This seventh volume of Collected Papers includes 70 papers comprising 974 pages on theoretic and applied neutrosophics written between 2013-2021 by the author alone or in collaboration with the following 122 co-authors from 22 countries: Mohamed Abdel Basset Abdel Nasser Hussian C Alexander Mumtaz Ali Yaman Akbulut Amir Abdullah Amira S Ashour Assia Bakali Kousik Bhattacharya Kainat Bibi R N Boyd mit Budak Lulu Cai Cenap zel Chang Su Kim Victor Christianto Chunlai Du Chunxin Bo Rituparna Chutia Cu Nguyen Giap Dao The Son Vinayak Devvrat Arindam Dey Partha Pratim Dey Fahad Alsharari Feng Yongfei S Ganesan Shivam Ghildiyal Bibhas C Giri Masooma Raza Hashmi Ahmed Refaat Hawas Hoang Viet Long Le Hoang Son Hongbo Wang Hongnian Yu Mihaiela Iliescu Saeid Jafari Temitope Gbolahan Jaiyeola Naeem Jan R Jeevitha Jun Ye Anup Khan Madad Khan Salma Khan Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Kifayat Ullah Kishore Kumar P K Sujit Kumar De Prasun Kumar Nayak Malayalan Lathamaheswari Luong Thi Hong Lan Anam Luqman Luu Quoc Dat Tahir Mahmood Hafsa M Malik Nivetha Martin Mai Mohamed Parimala Mani Mingcong Deng Mohammed A Al Shumrani Mohammad Hamidi Mohamed Talea Kalyan Mondal Muhammad Akram Muhammad Gulistan Farshid Mofidnakhaei Muhammad Shoaib Muhammad Riaz Karthika Muthusamy Nabeela Ishfaq Deivanayagampillai Nagarajan Sumera Naz Nguyen Dinh Hoa Nguyen Tho Thong Nguyen Xuan Thao Noor ul Amin Dragan Pamur Gabrijela Popovi S Krishna Prabha Surapati Pramanik Priya R Qiaoyan Li Yaser Saber Said Broumi Saima Anis Saleem Abdullah Ganeshree Selvachandran Abdulkadir Seng r Seyed Ahmad Edalatpanah Shahbaz Ali Shahzaib Ashraf Shouzen Zeng Shio Gai Quek Shuangwu Zhu Shumaiza Sidra Sayed Sohail Iqbal Songtao Shao Sundas Shahzadi Dragi Stanujki eljko Stevi Udhayakumar Ramalingam Zunaira Rashid Hossein Rashmanlou Rajkumar Verma Luige Vl d reanu Victor Vl d reanu Desmond Jun Yi Tey Sel uk Topal Naveed Yaqoob Yanhui Guo Yee Fei Gan Yingcang Ma Young Bae Jun Yuping Lai Hafiz Abdul Wahab Wei Yang Xiaohong Zhang Edmundas Kazimieras Zavadskas Lemnaouar Zedam

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Danielli, Marta Lewicka, Arati Pati, Saraswathy RV, Miranda Teboh-Ewungkem, 2020-07-16 This volume highlights the mathematical research presented at the 2019 Association for Women in Mathematics AWM Research Symposium held at Rice University April 6 7 2019 The symposium showcased research from women across the mathematical sciences working in academia government and industry as well as featured women across the career spectrum undergraduates graduate students postdocs and professionals The book is divided into eight parts opening with a plenary talk and followed by a combination of research paper contributions and survey papers in the different areas of mathematics represented at the symposium algebraic combinatorics and graph theory algebraic biology commutative algebra analysis probability and PDEs topology applied mathematics mathematics education

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