

NAME: _____

ANSWERS

DATE: 01/20/2023

Write the following parametric equations in rectangular form:

1. $x = 3t, \quad y = 4t^2 - 4$

$$\frac{x}{3} = t$$

$$y = 4\left(\frac{x}{3}\right)^2 - 4$$

$$y = 4\left(\frac{x^2}{9}\right) - 4$$

$$y = \frac{4}{9}x^2 - 4$$

2. $x = 4\cos(t), \quad y = 5\sin(t)$

$$\frac{x}{4} = \cos t, \quad \frac{y}{5} = \sin t$$

$$\sin^2 t + \cos^2 t = 1$$

$$\left(\frac{y}{5}\right)^2 + \left(\frac{x}{4}\right)^2 = 1$$

$$y^2/25 + x^2/16 = 1$$

or

$$16y^2 + 25x^2 = 400$$

Convert each of the following points in rectangular coordinates to polar coordinates:
(Q3 and Q4) [r - 2 dec. places, θ - 2 dec. places radians]

3. $(-2, 4)$

$$r = \sqrt{x^2 + y^2}$$

$$= \sqrt{(-2)^2 + 4^2}$$

$$= \sqrt{4 + 16}$$

$$= \sqrt{20} = 4.47$$

$$\tan \theta = \frac{y}{x} = \frac{4}{-2} = -2$$

$$\theta_{\text{ref}} = \tan^{-1}(2)$$

$$= 1.107$$

$$\theta = \pi - \theta_{\text{ref}} = \pi - 1.107$$

$$= 2.0345$$

$$\approx 2.03$$

$$(4.47, 2.03)$$



4. $(3, 5)$

$$r = \sqrt{3^2 + 5^2}$$

$$= \sqrt{9 + 25}$$

$$= \sqrt{34} = 5.83$$

$$\tan \theta = \frac{y}{x}$$

$$= 1.03$$

$$(5.83, 1.03)$$

Honors Pre Calculus Study Guide

J Rink



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The Los Angeles Private School Guide, 2005 Edition Fiona Whitney, 2004-10 Latest edition of this carefully researched review of over 70 of the top private pre schools elementary middle and high schools in the Los Angeles area Includes a section on public charter schools How to start one and how to get into them Discusses Los Angeles Unified School District s G A T E and Magnet programs Helps parents focus on which school will be the best fit for both them and their child economically physically and philosophically Just about everything you ve wanted to ask about a school all in one single book

College Matters Guide to Getting Into the Elite College of Your Dreams Jacquelyn Kung, Melissa Dell, Joanna Chan, 2004-08-21 An invaluable resource for high school students who dream of getting into top flight colleges College Matters offers the guidance of 12 students who made it into their dream colleges They share their expertise about the entire process from first explorations to estimating chances through the practical work of reaching the goal Here s what you need to know to optimize your chances of admission to one of the most selective colleges Features include Proven techniques for getting into an elite college An approach that teenagers can identify with Chapters that are written by students uniquely qualified in specific topics for example Evelyn Huang author of the financial aid chapter won more than 110 000 in scholarships

Academic Advocacy for Gifted Children Barbara Gilman, M.S., 2020-01-01 Formerly titled Empowering Gifted Minds Educational Advocacy That Works this book is the definitive manual on gifted advocacy for gifted students The author tells parents and teachers how to document a child s abilities to provide reasonable educational options year by year This book provides imperative information on testing considerations curriculum successful programs and planning your child s education It is an essential guide

The 2000 High School Transcript Study User's Guide and Technical Report, 2005

Equitable School Scheduling Cheryl Hibbeln, Lori Rhodes, 2024-11-05 To understand a school s values and priorities look at its schedule When schedules do not meet the instructional needs of students the result is a pipeline from PreK through grade 12 that leaks students an outcome disproportionately experienced by students of color and other marginalized student groups This practical and thoughtful guide demonstrates how school and district scheduling teams can become Architects of Equity highly effective teams who design schedules that reflect their commitment to student achievement and social emotional wellbeing Including strategies to shift collective mindsets around scheduling organize and support teaching teams and ensure fiscal responsibility in scheduling Equitable School Scheduling is a vital resource for secondary school leaders committed to dismantling systemic inequities inherent in school structures Readers will learn how to Self assess site and or district data through a deep examination of the course of study site schedule s transcripts and graduation cohort outcomes Design and implement an Equitable Core a guaranteed set of courses that all students experience as a part of a meaningful graduation Prioritize underestimated and historically underserved students in the planning of the schedule Equitable School Scheduling helps school and district administrators use scheduling as a tool to

transform the leaky pipeline to graduation into a meaningful path to post secondary success for all students **Directory of Distance Learning Opportunities** Modoc Press, Inc.,2003-02-28 This book provides an overview of current K 12 courses and programs offered in the United States as correspondence study or via such electronic delivery systems as satellite cable or the Internet The Directory includes over 6 000 courses offered by 154 institutions or distance learning consortium members Following an introduction that describes existing practices and delivery methods the Directory offers three indexes Subject Index of Courses Offered by Level Course Level Index Geographic Index All information was supplied by the institutions Entries include current contact information a description of the institution and the courses offered grade level and admission information tuition and fee information enrollment periods delivery information equipment requirements credit and grading information library services and accreditation Racial Inequality in Mathematics Education Thierry Elin-Saintine,2021-08-26 This book focuses on the math identity construction of 11 Black students High school students perception of what who is a math person constrained and limited their sense of belonging to the community of doers of mathematics This study offers new insights into the racial opportunity gap in mathematics education **Illuminating and Advancing the Path for Mathematical Writing Research** Colonnese, Madelyn W.,Casa, Tutita M.,Cardetti, Fabiana,2023-11-20 Mathematical writing is essential for students math learning but it s often underutilized due to unclear guidelines Mathematical writing is a mode of communication that provides teachers access to their students thinking and importantly offers students an opportunity to deepen their mathematical understanding engage in mathematical reasoning and learn a fundamental way to communicate mathematically Notably one needs to be able to judiciously combine mathematical symbols representations and text However more research is needed to exemplify the qualities of mathematical writing develop implementation methods and support teachers Illuminating and Advancing the Path for Mathematical Writing Research is a necessary comprehensive resource designed to enhance mathematical writing and promote equitable learning This research book provides a comprehensive understanding of the current state of mathematical writing and illuminates various perspectives on moving the teaching and learning of k 12 mathematical writing forward Mathematical writing is an important yet underutilized component of mathematical discourse and this book offers further insight into understanding what it means to write mathematically for mathematics educators and researchers It informs with research based implementation strategies and creates purposeful professional learning opportunities Ultimately k 12 students will benefit from a more informed field because they will have access to a vital mode of mathematical reasoning and communication **Resources in Education** ,1999-10 College and University ,1998 Bibliography of papers and addresses published in the Bulletin of the American Association of Collegiate Registrars 1910 1933 v 9 p 115 136

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