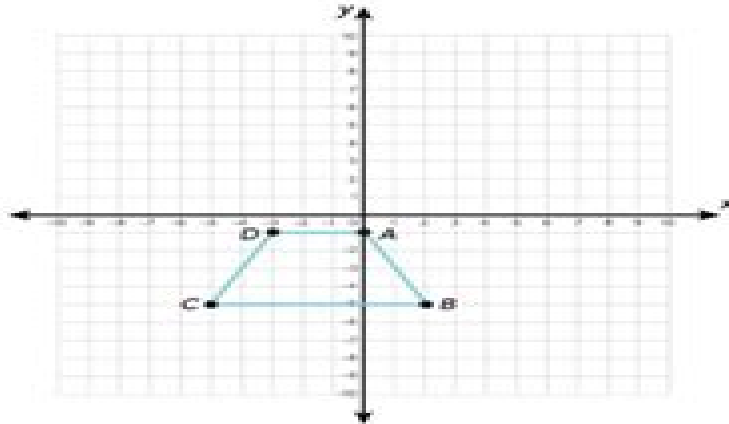


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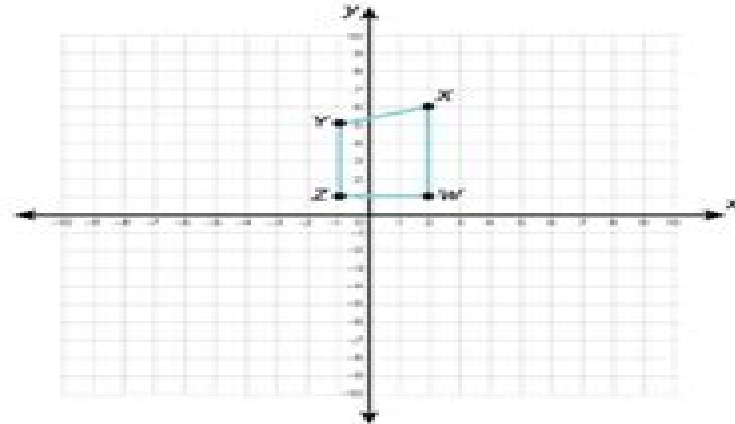


Keep going! Graph the image of each figure by completing the given translation.

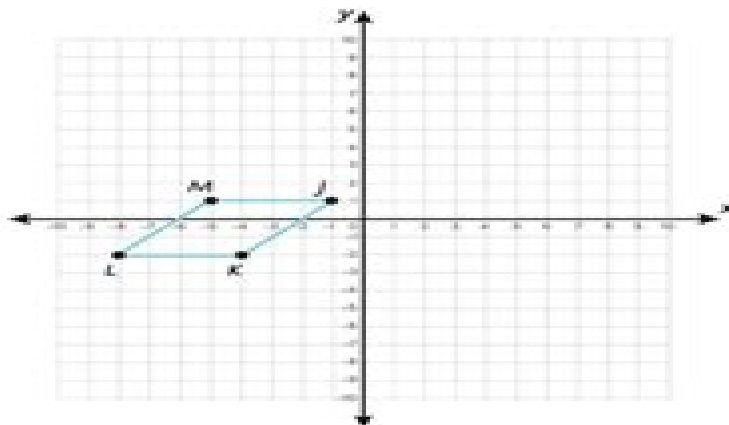
Graph the image of trapezoid $ABCD$ after a translation 2 units left and 9 units up.



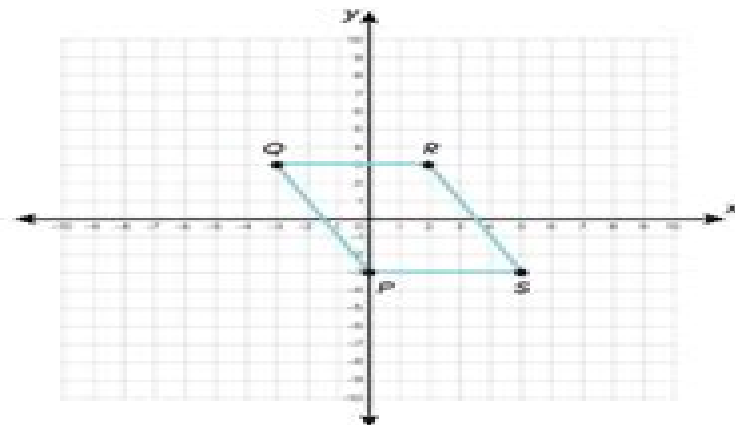
Graph the image of trapezoid $WXYZ$ after a translation 7 units right and 1 unit down.



Graph the image of parallelogram $JKLM$ after a translation 8 units right and 5 units up.



Graph the image of parallelogram $PQRS$ after a translation 3 units left and 6 units down.



Transformation On Coordinate Plane Task

Jianjun Gao



Transformation On Coordinate Plane Task:

Mine the Gap for Mathematical Understanding, Grades 6-8 John SanGiovanni, Jennifer Rose Novak, 2017-09-12 Being an effective math educator is one part based on the quality of the tasks we give one part how we diagnose what we see and one part what we do with what we find Yet with so many students and big concepts to cover it can be hard to slow down enough to look for those moments when students responses tell us what we need to know about next best steps In this remarkable book John SanGiovanni and Jennifer Rose Novak help us value our students misconceptions and incomplete understandings as much as their correct ones because it is the gap in their understanding today that holds the secrets to planning tomorrow's best teaching The authors lay out 180 high quality tasks aligned to the standards and big ideas of Grades 6-8 mathematics including number systems integers ratio and proportion equations and expressions geometry and statistics and probability The tasks are all downloadable so you can use or modify them for instruction and assessment Each big idea offers a starting task followed by what makes it a high quality task what you might anticipate before students work with the task four student examples of the completed task showcasing a distinct gap commentary on what precisely counts for mathematical understanding and the next instructional steps commentary on the misconception or incomplete understanding so you learn why the student veered off course three additional tasks aligned to the mathematics topic and ideas about what students might do with these additional tasks It is time to break our habit of rushing into re-teaching for correctness and instead get curious about the space between right and wrong answers *Mine the Gap for Mathematical Understanding* is a book you will return to again and again to get better at selecting tasks that will uncover students reasoning better at discerning the quality and clarity of students understanding and better at planning teaching based on the gaps you see **Connecting Abstract**

Algebra to Secondary Mathematics, for Secondary Mathematics Teachers Nicholas H. Wasserman, 2018-12-12 Secondary mathematics teachers are frequently required to take a large number of mathematics courses including advanced mathematics courses such as abstract algebra as part of their initial teacher preparation program and or their continuing professional development The content areas of advanced and secondary mathematics are closely connected Yet despite this connection many secondary teachers insist that such advanced mathematics is unrelated to their future professional work in the classroom This edited volume elaborates on some of the connections between abstract algebra and secondary mathematics including why and in what ways they may be important for secondary teachers Notably the volume disseminates research findings about how secondary teachers engage with and make sense of abstract algebra ideas both in general and in relation to their own teaching as well as offers itself as a place to share practical ideas and resources for secondary mathematics teacher preparation and professional development Contributors to the book are scholars who have both experience in the mathematical preparation of secondary teachers especially in relation to abstract algebra as well as those who have engaged in related educational research The volume addresses some of the persistent issues in secondary

mathematics teacher education in connection to advanced mathematics courses as well as situates and conceptualizes different ways in which abstract algebra might be influential for teachers of algebra Connecting Abstract Algebra to Secondary Mathematics for Secondary Mathematics Teachers is a productive resource for mathematics teacher educators who teach capstone courses or content focused methods courses as well as for abstract algebra instructors interested in making connections to secondary mathematics

Introduction to Computer Graphics Karsten Lehn,Merijam Gotzes, Frank Klawonn,2023-06-05 A basic understanding of the key techniques in computer graphics can open the door to this exciting field and its many applications including for video games and for augmented and virtual reality This easy to follow textbook and reference introduces the fundamental concepts of computer graphics integrating both technical background and theory with practical examples and applications throughout Thoroughly revised and updated this new edition continues to present a user friendly approach to creating images and animations complementing the expanded coverage of topics with usage of example programs and exercises Topics and features Contains pedagogical tools including easy to understand example programs and end of chapter exercises Presents a practical guide to basic computer graphics programming using the Open Graphics Library OpenGL and the widely used Java programming language Includes new and expanded content on the OpenGL graphics pipelines shader programming drawing basic objects using the OpenGL three dimensional modelling quaternions rasterisation antialiasing and more Supplies complete Java project examples as supplementary material This reader friendly textbook is an essential tool for second year undergraduate students and above providing clear and concise explanations of the basic concepts of computer graphics It will enable readers to immediately implement these concepts using the OpenGL and Java with only elementary knowledge of the programming language Prof Dr Ing Karsten Lehn works at the Faculty of Information Technology at Fachhochschule Dortmund University of Applied Sciences and Arts Prof Dr Merijam Gotzes is teaching at Hamm Lippstadt University of Applied Sciences Prof Dr Frank Klawonn is head of the Data Analysis and Pattern Recognition Laboratory at the Ostfalia University of Applied Sciences and heads the Biostatistics Research Group at the Helmholtz Centre for Infection Research

The Mathematics that Every Secondary Math Teacher Needs to Know Alan Sultan,Alice F. Artzt,2010-09-13 What knowledge of mathematics do secondary school math teachers need to facilitate understanding competency and interest in mathematics for all of their students This unique text and resource bridges the gap between the mathematics learned in college and the mathematics taught in secondary schools Written in an informal clear and interactive learner centered style it is designed to help pre service and in service teachers gain the deep mathematical insight they need to engage their students in learning mathematics in a multifaceted way that is interesting developmental connected deep understandable and often surprising and entertaining Features include Launch questions at the beginning of each section Student Learning Opportunities Questions from the Classroom and highlighted themes throughout to aid readers in becoming teachers who have great MATH

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Generation and Modulation of Action Patterns Herbert Heuer,Christoph Fromm,1986-10 During the academic year 1984
 85 a study group on Perception and Action was established at the Center for Inter disciplinary Research of the University of
 Bielefeld Among the various activities of this group was a series of symposia This volume covers the proceedings of one of the

symposia held in October 1984 and entitled Generation and Modulation of Action Patterns Bringing together scientists from diverse disciplines in general is challenging but also hazardous Aware of the notorious communication problems it was tried to keep the number of representatives of at least the major areas of Neurobiology and Psychology about equal and to elicit presentations that combine experimental findings with theoretical statements on major issues in motor control Despite the different viewpoints concepts research strategies and methods as they are reflected in the present volume there was the general impression among the participants that such a multidisciplinary effort was profitable and one step on the way to the realization of common goals and common conceptual grounds

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rumus momen inersia dan contoh soal materi fisika kelas 11 - Jul 21 2023

jun 17 2022 $I = m r^2$ penjelasan m adalah massa partikel kg r merupakan jarak partikel ke sumbu putar m satuan momen inersia adalah kg m^2 pada benda pejal besar momen inersia dapat dihitung sebagai distribusi massa benda dikalikan dengan jarak sumbu putar sedangkan untuk rumus momen inersia benda tegar adalah sebagai berikut

rumus momen inersia dan contoh soalnya materi ipa com - Oct 12 2022

nov 28 2017 jadi momen inersia yang terhubung oleh seutas tali berjarak 50 cm dengan berat 100 gram adalah 0.05 kg m^2 baca juga contoh hukum newton 3 dan penjelasannya $I = \sum m_i r_i^2$ rumus 2 rumus 2 digunakan jika terdapat beberapa benda atau partikel yang berotasi terhadap sumbu rotasi contoh soal rumus 2

titik pusat berat dan momen inersia massa staff - Apr 06 2022

besar momen inersia dihitung dengan rumus untuk benda berupa partikel tunggal titik massa $I = m r^2$ untuk beberapa partikel titik massa $I = \sum m r^2$

menghitung momen inersia penampang bersusun seputar - Jun 08 2022

aug 30 2016 $y = cy + 271 \text{ cm}$ ada rumus umum mencari titik berat gabungan penampang berlaku juga untuk sumbu y hitung momen inersia I_x gabungan dengan persamaan dimana adalah jarak titik berat masing masing penampang tunggal ke titik berat penampang gabungan untuk kasus di atas sehingga untuk sumbu y dimana karena titik berat

momen inertia titik berat pdf scribd - Nov 13 2022

momen inersia terhadap sumbu x y yang melalui titik berat penampang z adalah I_{xz} atau $I_x + I_z - b^2 h^3$ dan I_{yz} atau $I_y + I_z - h^2 b^3$ momen inersia terhadap sumbu x adalah $I_x + I_z - b^2 h^3$ $I_x = \frac{1}{12} b h^3$ $I_z = \frac{1}{12} h b^3$ $I_y = \frac{1}{12} h b^3$ momen inersia terhadap sumbu y adalah $I_y + I_z - h^2 b^3$ $I_x = \frac{1}{12} b h^3$ $I_z = \frac{1}{12} h b^3$ $I_y = \frac{1}{12} h b^3$

menghitung momen inersia seputar dunia teknik sipil - Mar 05 2022

jun 26 2009 adalah momen inersia terhadap sumbu x tertentu adalah momen inersia terhadap sumbu netral garis berat adalah luas bangun penampang adalah jarak dari titik berat ke sumbu momen inersia yang dicari catatan untuk tinjauan sumbu y tinggal ditukar aja kok x jadi y y jadi x

cara gampang memahami konsep momen inersia ruangguru - Jul 09 2022

july 30 2021 6 minutes read artikel fisika kelas 11 ini membahas tentang konsep momen inersia serta contoh penerapannya di kehidupan sehari-hari coba perhatikan mainan di atas meja benda-benda yang akan diluncurkan pada lintasan

penerapan integral untuk menghitung titik berat dan momen inersia - Jan 15 2023

membuat titik berat pita menentukan momen terhadap sumbu x I_{x} dan sumbu y I_{y} selanjutnya menghitung titik berat tersebut dengan integral 4 untuk menghitung momen inersia langkahnya dimulai dengan membuat pita sejajar dengan garis l sumbu x dan titik berat pita kemudian dibentuk hasil kali luas

menghitung titik berat dan momen inersia penampang balok i - May 19 2023

sep 7 2023 $x = 100 \text{ mm}$ $y = 80 \text{ mm}$ $z = 104 \text{ mm}$ 104 cm sementara untuk sumbu y karena masing-masing elemen siku $100 \times 100 \times 10$ posisi titik berat c_y nya berjarak sama dari sumbu dasar maka titik berat gabungannya juga akan sama $y_c = 271 \text{ cm}$ ada rumus umum mencari titik berat gabungan penampang berlaku juga untuk sumbu y

titik berat momentum sudut torsi momen inersia pdf scribd - Feb 04 2022

145 contoh soal dan pembahasan 1 sebuah partikel bermassa 0.5 gram melakukan gerak melingkar dengan kecepatan sudut tetap 2 rad/s jika jari-jari lintasan partikel 10 cm maka momentum sudut partikel itu adalah pembahasan momentum sudut partikel $1.05 \times 10^{-5} \text{ kg m}^2 \text{ rad/s}$ $1 \times 10^{-5} \text{ kg m}^2 \text{ s}^2$

rumus momen inersia rumushitung.com - Sep 11 2022

aug 26 2017 sedangkan bola pejal berjari-jari 5 cm dan massa 4 kg jika kedua benda tadi berotasi dengan poros melalui pusatnya maka tentukan perbandingan momen inersia silinder dan bola jawab $m_s^2 / k_r^2 = 8 \text{ cm} / 10.2 \text{ m}$ $m_b = 4 \text{ kg}$ $r_b = 5 \text{ cm}$ 10.2 m momen inersia silinder pejal adalah $I_s = \frac{1}{2} m_s r_s^2 = \frac{1}{2} \cdot 2 \cdot 8 \cdot 10.2^2 = 64 \cdot 10.4 \text{ kg m}^2$

momen inersia konsep rumus contoh soal momen inersia - Feb 16 2023

besarnya momen inersia suatu benda bergantung terhadap beberapa faktor yaitu massa benda atau partikel geometri benda bentuk letak sumbu putar benda jarak ke sumbu putar benda lengan momen rumus momen inersia besarnya momen inersia I suatu benda bermassa yang memiliki titik putar pada sumbu yang diketahui dirumuskan sebagai berikut

fakultas teknik jurusan teknik sipil universitas brawijaya - Mar 17 2023

menentukan titik berat penampang berhubung momen inersia yang diinginkan akan dipergunakan dalam perhitungan lenturan maka momen inersia ini haruslah diperhitungkan terhadap sumbu yang melalui titik berat penampang keterangan luas $a \text{ mm}^2$ jarak titik berat thd garis bawah $y \text{ mm}$ $a \cdot x \text{ mm}^3$ luas total $40 \times 60 = 2400$ $30 \times 2400 = 72000$

contoh perhitungan momen inersia seputar dunia teknik sipil - May 07 2022

dec 1 2009 sekedar pengingat saja untuk persegi momen inersia nya adalah dan lokasi titik beratnya ada pada seperdua lebar dan seperdua tinggi persegi sementara untuk segitiga siku siku momen inersia dan lokasi titik beratnya ada

fakultas teknik jurusan teknik sipil universitas brawijaya - Dec 14 2022

menentukan titik berat penampang berhubung momen inersia yang diinginkan akan dipergunakan dalam perhitungan lenturan maka momen inersia ini haruslah diperhitungkan terhadap sumbu yang melalui titik berat penampang keterangan luas a mm² jarak titik berat thd alas y mm a x y mm³ luas total 40 x 60 2400 30 2400 x 30 72000 luas