

Problem-Based Mathematics I

Mathematics Department
Shady Side Academy
Pittsburgh, PA
June 2015

[Problems originated with the Mathematics Department at Phillips Exeter Academy, NH.]

Problem Based Maths Iii Shady Side Academy

CL Gary



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This volume of proceedings of the 1990 National Educational Computing Conference NECC provides a record of the state of the art in the use of computing in a variety of educational settings Special sessions panels projects 153 abstracts and 44 papers are reported here on subjects including elementary and secondary educational software higher education applications multimedia programs hypermedia ethics computer education administration interactive video computer assisted instruction engineering Logo thinking skills teacher education video based instruction and networks Tables and diagrams accompany some of the entries and each of the papers contains its own list of references An index of authors and other participants is also included DB **The Computing Teacher** ,1987 *Resources in Education* ,1988 *Peterson's Private Secondary Schools* 2007 Thomson Peterson's,2006-04 Lists and describes schools in the United States and Canada *The Handbook of Private Schools* ,1977 This handbook aims to be a guide to the best private schools of the country It has been undertaken with the parent especially in mind but it is hoped that it may be of value to school and college authorities and all others interested in the subject It is believed that this Handbook is the first volume which attempts a critical and discriminating treatment of the private schools of the country It is an endeavor to classify the schools on their merits at least a step it is hoped toward eventual standardization Editor's foreword Private Secondary Schools: Traditional Day and Boarding Schools Peterson's,2011-05-01 Peterson's Private Secondary Schools Traditional Day and Boarding Schools is everything parents need to find the right day or boarding private secondary school for their child Readers will find hundreds of school profiles plus links to informative two page in depth descriptions written by some of the schools Helpful information includes the school's area of specialization setting affiliation accreditation subjects offered special academic programs tuition financial aid student profile faculty academic programs student life admission information contacts and much more
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seluler jika persamaan tidak cukup atau tidak nampak titik 0 garis datum saya ambil dari bawah penampang balok

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titik berat dan momen inersia iv titik berat dan momen inersia 4 1 titik berat penampang momen pertama suatu luasan elemen terhadap suatu sumbu di dalam bidang luasan diberikan dengan produk luasan elemen dan jarak tegak lurus antara elemen dengan sumbu

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

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berat penampang gabungan untuk kasus di atas sehingga untuk sumbu y dimana karena titik berat
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momen inersia terhadap sumbu x y yang melalui titik berat penampang z adalah I_{xz} atau $I_{x12} b h^3$ dan I_{yz} atau $I_{y12} h b^3$ momen inersia terhadap sumbu x adalah $I_{xz} = \frac{1}{12} b h^3$ dan $I_{yz} = \frac{1}{12} h b^3$ momen inersia terhadap sumbu y adalah $I_{yz} = \frac{1}{12} h b^3$ dan $I_{xz} = \frac{1}{12} b h^3$

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membuat titik berat pita menentukan momen terhadap sumbu x I_{mx} dan sumbu y I_{my} 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

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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 $m = 2 \text{ kg}$ $r = 8 \text{ cm}$ $10,2 \text{ m}$ $b = 4 \text{ kg}$ $r = 5 \text{ cm}$ $10,2 \text{ m}$ momen inersia silinder pejal adalah $I = \frac{1}{2} m r^2 = \frac{1}{2} \cdot 2 \cdot (0,08)^2 = 6,4 \cdot 10^{-4} \text{ kg m}^2$

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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

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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 $y \text{ mm}$ $a \times y \text{ mm}^3$ luas total $40 \times 60 \text{ 2400}$ 30 2400 $\times 30 \text{ 72000}$

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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 alas $y \text{ mm}$ $a \times y \text{ mm}^3$ luas total $40 \times 60 \text{ 2400}$ 30 2400 $\times 30 \text{ 72000}$ luas