

Forces, Magnitude & Direction

Directions: Fill in the correct answer.

1. A FORCE is a push or a pull.
2. The NET FORCE is the combination of all of the forces acting on an object.
3. The unit used to measure force is the NEWTON.
4. When two or more forces act on an object in the same direction, the forces balance (combine to make zero).
5. When two forces acting in opposite directions combine, the net force is in the same direction as the larger (or positive) force.

Directions: Give the magnitude and direction of the forces shown below.



Directions: Draw and label the net force on each diagram below.



Identifying Forces

Identify the forces in each of the following situations.
Then describe the effect of the forces.



Push - the ball rolls
to the left
Pull - the ball rolls
to the right



Push - the person pushes
the chair to the right
Pull - the person pulls
the chair to the left



Push - the person pushes
the piano to the right
Pull - the person pulls
the piano to the left



PUSH - magnet pushes
on the surface
PULL - magnet pulls
on the paper



PUSH - magnet pushes
on the surface
PULL - magnet pulls
on the metal



PUSH - magnet pushes
on the paper
PULL - magnet pulls
on the paper



PUSH - the person pushes
the bicycle to the right
PULL - the person pulls
the bicycle to the left
Gravity pulls down



Science Review Forces Section Answer Key

Kelli Allen

Science Review Forces Section Answer Key:

United States Code: Title 10: Armed forces [sections] 1431-7921, 2013 Preface 2012 edition The United States Code is the official codification of the general and permanent laws of the United States The Code was first published in 1926 and a new edition of the code has been published every six years since 1934 The 2012 edition of the Code incorporates laws enacted through the One Hundred Twelfth Congress Second session the last of which was signed by the President on January 15 2013 It does not include laws of the One Hundred Thirteenth Congress First session enacted between January 3 2013 the date it convened and January 15 2013 By statutory authority this edition may be cited U S C 2012 ed As adopted in 1926 the Code established *prima facie* the general and permanent laws of the United States The underlying statutes reprinted in the Code remained in effect and controlled over the Code in case of any discrepancy In 1947 Congress began enacting individual titles of the Code into positive law When a title is enacted into positive law the underlying statutes are repealed and the title then becomes legal evidence of the law Currently 26 of the 51 titles in the Code have been so enacted These are identified in the table of titles near the beginning of each volume The Law Revision Counsel of the House of Representatives continues to prepare legislation pursuant to 2 USC 285b to enact the remainder of the Code on a title by title basis into positive law The 2012 edition of the Code was prepared and published under the supervision of Ralph V Seep Law Revision Counsel Grateful acknowledgment is made of the contributions by all who helped in this work particularly the staffs of the Office of the Law Revision Counsel and the Government Printing Office John A Boehner Speaker of the House of Representatives Washington D C January 15 2013 Page VII Discovering Science Through Inquiry: Forces and Motion Kit Kelli Allen, 2009-11-10 The Discovering Science through Inquiry series provides teachers and students of grades 3 8 with direction for hands on science exploration around particular science topics and focuses The series follows the 5E model engage explore explain elaborate evaluate The Forces and Motion kit provides a complete inquiry model to explore the laws of motion through supported investigation Watch as students design a safe landing parachute to observe how the forces of deceleration work on parachutes Forces and Motion kit includes 16 Inquiry Cards in print and digital formats Teacher s Guide Inquiry Handbook Each kit includes a single copy additional copies can be ordered Digital resources include PDFs of activities and additional teacher resources including images and assessment tools leveled background pages for students and video clips to support both students and teachers United States Code United States, 2001 **Boston Journal of Chemistry and Popular Science Review**, 1883 Federal Register, 1977 **U.S. Government Research & Development Reports**, 1970

The Electrical Review, 1884 **The American Law Review**, 1890 The School Science Review, 1962

Homiletic Review, 1899 The Saturday Review of Politics, Literature, Science and Art, 1871 **The Homiletic Review**, 1899 the scientific review and scientific and literary review, 1883 **The Chinese Social and Political Science Review**, 1924 Has annual indexes **Digest; Review of Reviews Incorporating Literary Digest**, 1892 The

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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 m² 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

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momen inersia terhadap sumbu x y yang melalui titik berat penampang z adalah izx atau $ix^2 + iy^2 + iz^2$ dan izy atau $ix^2 + iy^2 + iz^2$ momen inersia terhadap sumbu x adalah $ix^2 + iy^2 + iz^2$ momen inersia terhadap sumbu y adalah $iy^2 + ix^2 + iz^2$ momen inersia terhadap sumbu z adalah $iz^2 + ix^2 + iy^2$

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sep 7 2023 $x = 100$ $8 = 2$ 104 mm $10 = 4$ cm sementara untuk sumbu y karena masing masing elemen siku $1100 \times 100 \times 10$ posisi titik berat cy nya berjarak sama dari sumbu dasar maka titik berat gabungannya juga akan sama $cy = 2.71$ cm ada rumus umum mencari titik berat gabungan penampang berlaku juga untuk sumbu y

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145 contoh soal dan pembahasan1 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 $10.5 \times 10.5 \text{ kg m}^2 \text{ rad/s} = 10.5 \text{ kg m}^2 \text{ s}^2$

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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 lengkap 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 berhubungan 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 garis bawah y mm $A \times y$ mm³ luas total $40 \times 60 = 2400$ $30 \times 40 = 1200$ $30 \times 72000 = 2160000$

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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 berhubungan 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