



MATHEMATICS REVIEW

Solutions to Problems

0.1. Set Up and Solve: $(-3x^4y^2)^2 = (-3)^2(x^4)^2(y^2)^2 = 9x^8y^4$

Reflect: The square of any real expression must be positive.

0.2. Set Up and Solve: $\frac{(2^34^6)^2}{(8)^4} = \frac{[2^3(2^2)^3]^2}{(2^3)^4} = \frac{(2^32^6)^2}{2^{12}} = \frac{(2^9)^2}{2^{12}} = \frac{2^{18}}{2^{12}} = 2^{(18-12)} = 2^6 = 64$

Reflect: Since we are evaluating a numerical expression you could use your calculator to obtain the result without any algebraic manipulation, but it is more precise in general to do the algebra first before using your calculator.

***0.3. Set Up and Solve:** $\left(\frac{8x^3y^2}{2y^3}\right)^2 = \frac{8^2(x^3)^2(y^2)^2}{2^2(y^3)^4} = \frac{64x^6y^4}{4y^{12}} = \frac{16x^6}{y^8}$

Reflect: Notice that we could have used $8 = 2^3$ in the numerator and canceled the two factors of 2 in the denominator, leaving us with $2^4 = 16$ in the numerator.

0.4. Set Up and Solve: $\left(-\frac{x^{-4}y^{-4}}{x^2y^{-2}}\right)^5 = (-1)^5\frac{(x^{-4})^5(y^{-4})^5}{(x^2)^5(y^{-2})^5} = -\frac{x^{-20}y^{-20}}{x^{10}y^{-10}} = -x^{-30}y^{-10}$

Reflect: Any real expression raised to an odd power has the same sign as the original expression.

0.5. Set Up and Solve: The decimal point must be moved 5 places to the left to change 475000 into a number between 1 and 10. Thus, we have $475000 = 4.75 \times 10^5$.

Reflect: When written in scientific notation, numbers larger than 1 will have positive exponents and numbers less than 1 will have negative exponents for their power of 10.

0.6. Set Up and Solve: The decimal point must be moved 6 places to the right to change 0.00000472 into a number between 1 and 10. Thus, we have $0.00000472 = 4.72 \times 10^{-6}$.

Reflect: When written in scientific notation, numbers larger than 1 will have positive exponents and numbers less than 1 will have negative exponents for their power of 10.

***0.7. Set Up and Solve:** The decimal point must be moved 2 places to the left to change 123 into a number between 1 and 10. Thus, we have $123 \times 10^{-2} = 1.23 \times 10^2 \times 10^{-2} = 1.23 \times 10^0$.

Young College Physics Solutions

Hugh D. Young, Roger A. Freedman



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Young, Roger A. Freedman, 2015-04-15 This volume covers Chapters 1-20 of the main text. The Student's Solutions Manual provides detailed step-by-step solutions to more than half of the odd-numbered end-of-chapter problems from the text. All solutions follow the same four-step problem-solving framework used in the textbook. Student Study Guide and Solutions Manual for University Physics, Volume 1 (Chapters 1-20) Hugh Young, Roger Freedman, 2019-07-27

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physics, tenth edition, volumes 2 & 3, Young & Freedman Albert Lewis Ford,2000 *Student Solutions Manual for College Physics* Hugh D. Young,2011-08 This solutions manual contains detailed step by step solutions to more than half of the odd numbered end of chapter problems from the textbook All solutions consistently follow the same Set Up Solve Reflect problem solving framework used in the textbook reinforcing good problem solving behavior College Physics Hugh D. Young,2011-01-01 A thorough introduction to physics this new edition maintains its traditional approach while implementing some new solutions to student difficulties Math review has been expanded to encompass a full chapter complete with end of chapter questions and in each chapter biomedical applications and problems have been added **University Physics With Modern Physics** Albert Lewis Ford,Roger A. Freedman,Hugh D. Young,2003-09 Includes all odd numbered problems from the text **Student Solutions Manual for University Physics Vols 2 And 3** Hugh D. Young,Albert Lewis Ford,Roger A. Freedman,2008 **Student Solutions Manual College Physics** Alan Giambattista,2012-02-08 The Student Solutions Manual contains complete worked out solutions to selected end of chapter problems and questions selected Review and Synthesis problems and the MCAT Review Exercises from the text The solutions in this manual follow the problem solving strategy outlined in the text s examples and also guide students in creating diagrams for their own solutions **Student Solutions Manual, Sears and Zemansky's University Physics, Tenth Edition [by] Young & Freedman** Albert Lewis Ford,2000 University Physics Hugh D. Young,1992 College Physics Raymond A. Serway,John R. Gordon,2003 For Chapters 15 30 this manual contains detailed solutions to approximately 12 problems per chapter These problems are indicated in the textbook with boxed problem numbers The manual also features a skills section important notes from key sections of the text and a list of important equations and concepts **Student Solutions Manual** Hugh D. Young,Albert Lewis Ford,Roger A. Freedman,2000

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