

## 8.3 Piecewise Functions

## 8.3 Practice

Use the piecewise function to evaluate the following.

1.

$$f(x) = \begin{cases} -2x^2 - 1, & x \leq 2 \\ 4x - 4, & x > 2 \end{cases}$$

a.  $f(0) = -2(0)^2 - 1$   
 $= -1$   
 $f(0) = -1$

c.  $f(2) = -2(2)^2 - 1$   
 $= -2(4) - 1$   
 $= -9$   
 $f(2) = -9$

b.  $f(5) = 4(5) - 4$   
 $= 20 - 4$   
 $f(5) = 16$

d.  $f(-3) = -2(-3)^2 - 1$   
 $= -2(9) - 1$   
 $= -18 - 1$   
 $f(-3) = -19$

2.

$$f(x) = \begin{cases} x^3 - 7x, & x \leq -3 \\ 8, & -3 < x \leq 3 \\ 7x, & x > 3 \end{cases}$$

a.  $f(-5) = (-5)^3 - 7(-5)$   
 $= -125 + 35$   
 $f(-5) = -90$

c.  $f(0) = 8$

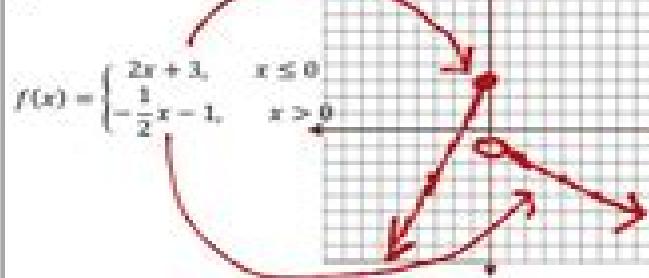
b.  $f(11) = 7(11)$   
 $f(11) = 77$

d.  $f(3) = 8$

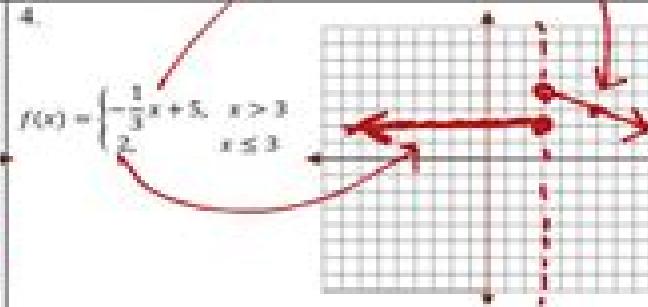
These are super easy when the functions are constant! No work!

Graph the following piecewise functions.

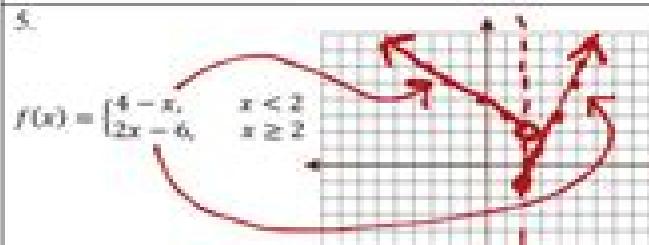
3.



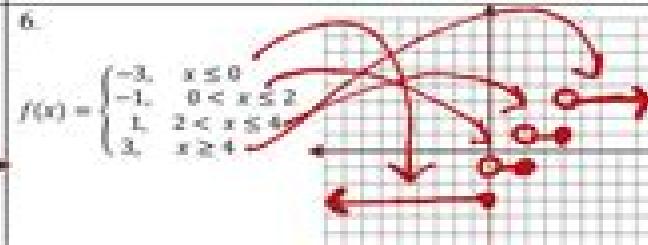
4.



5.



6.



# Common Core Math Functions Lesson

**Common Core**

## **Common Core Math Functions Lesson:**

*Common Core Standards in Diverse Classrooms* Jeff Zwiers, Susan O'Hara, Robert Henry Pritchard, 2014 The Common Core State Standards require students to do more with knowledge and language than ever before. Rather than be mere consumers of knowledge students must now become creators, critics, and communicators of ideas across disciplines. Yet in order to take on these new and exciting roles many students need daily teaching with an extra emphasis on accelerating their academic communication skills. *Common Core Standards in Diverse Classrooms Essential Practices for Developing Academic Language and Disciplinary Literacy* describes seven research based teaching practices for developing complex language and literacy skills across grade levels and disciplines using complex texts fortifying complex output fostering academic interaction clarifying complex language modeling, guiding, and designing instruction. Most important you will find clear descriptions and examples of how these essential practices can and should be woven together in real lessons. The book Clarifies how to support the learning of complex language that students need for reaching Common Core and other standards. Provides practical ways to realize the instructional shifts needed with the implementation of new standards in diverse classrooms. Includes frameworks and descriptions on how to develop students complex language speaking and writing. Helps maximize strategies and tools for building system wide capacity for sustained growth in the practices. *Common Core Standards in Diverse Classrooms* is a concise guide for helping us improve our practices to strengthen two vital pillars that support student learning academic language and disciplinary literacy.

**How to Achieve Common Core with Tech**  
Ask a Tech Teacher, 2013-06-04 160 pages 20 projects over 114 Common Core standards for 9 grades K-8. *How to Achieve Common Core with Tech* the Math Strand is part of a five volume series that focuses on using technology to meet Common Core standards in Language Writing Reading Speaking Listening and Math.

**Common Core Mathematics, A Story of Functions: Algebra II, Module 1** Common Core, 2015-01-20 *Common Core Mathematics A Story of Functions Algebra II Module 1 Polynomial Rational and Radical Relationships* Created by teachers for teachers the research based curriculum in this series presents a comprehensive coherent sequence of thematic units for teaching the skills outlined in the CCSS for Mathematics. With four color illustrations complete lesson plans and reproducible student worksheets and assessments this resource is uniquely designed to support teachers in developing content rich integrated learning experiences that adhere to established standards and encourage student engagement. Developed by Common Core a non profit advocacy group dedicated to producing content rich liberal arts curricula for America's K-12 schools. *Common Core Mathematics* is the most comprehensive CCSS based mathematics curriculum available today. The modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself. They embody the instructional shifts and the standards for mathematical practice demanded by the CCSS. Each module contains a sequence of lessons that combine conceptual understanding, fluency, and application to meet the demands of each topic in the module. Formative

assessments are included to support data driven instruction The modules are written by teams of master teachers and mathematicians This Module addresses Polynomial Rational and Radical Relationships **Bringing the Common Core**

**Math Standards to Life** Yvelyn Germain-McCarthy,Ivan Gill,2014-11-20 Provides a clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Offers real examples and detailed analyses of how exemplary teachers are using engaging strategies across the curriculum Includes practical ready to use tools you can take back to your classroom Strengthening Mathematical Reasoning among Middle School Students with Hidden or

Unmet Potential Peter Sheppard,Melissa A. Gallagher,2019-11-08 This work seeks to contribute to the national dialogue regarding best practices in teaching middle school mathematics The authors are committed to improving mathematics achievement and opportunities for students whose inherited circumstances place them at a perceptible disadvantage Most refer to said students as risks We hold the position that these students irrespective of their backgrounds possess Hidden or Unmet Potential and the unveiling of their potential can be accelerated when they are exposed to high quality mathematics teaching This book is a practitioner s guide to creative mathematics activities centered on algebraic proportional and geometric reasoning aligned with mathematics standards This approach has the potential to accelerate the mathematical confidence and accentuate the mathematical proficiencies of students **Uncovering Student Thinking About**

**Mathematics in the Common Core, High School** Cheryl Rose Tobey,Carolyn B. Arline,2014-03-10 Uncovering Student Thinking About Mathematics in the Common Core High School 25 Formative Assessment Probes Cheryl Rose Tobey Carolyn B Arline Not only does this book make strong connections to the CCSS it provides a framework for teachers to improve their craft Identifying student misconceptions is an extremely important aspect of assessment and this book provides a solid format to aid teachers Randy Wormald Math Teacher Kearsarge Regional High School Sutton NH Take the guesswork out of high school math instruction Helping your students master high school mathematics just got a whole lot easier Bestselling authors Cheryl Rose Tobey and Carolyn B Arline provide 25 detailed and grade level specific assessment probes that promote deep learning and expert math instruction Learn to ask the right questions to uncover where and how students commonly get confused Focused on subconcepts within the new Common Core State Standards for Mathematics and organized by strand the probes will help you foster new and accurate skills while learning is underway You ll learn how to Quickly diagnose students common misconceptions and procedural mistakes Help students pinpoint areas of struggle Plan targeted instruction that builds on students current understandings while addressing difficulties with Algebra Geometry Functions Logarithms Statistics and Probability Trigonometric Ratios and more Elicit the skills and processes related to the Standards for Mathematical Practices You ll find sample student responses extensive Teacher Notes and research based tips and resources to help you instill new mathematical ideas Includes the QUEST Cycle for effective hands on implementation Now you can eliminate the guesswork once and for all and join thousands of busy high school teachers who ve used these easy to

implement tools to build solid math proficiency Other Books From Corwin 1 Tobey Uncovering Student Thinking About Mathematics in the Common Core Grades K 2 978 1 4522 3003 0 2 Tobey Uncovering Student Thinking About Mathematics in the Common Core Grades 3 5 978 1 4522 7024 1 3 Tobey Uncovering Student Thinking About Mathematics in the Common Core Grades 6 8 978 1 4522 3088 7 Cheryl Rose Tobey is a Senior Mathematics Associate at Education

Development Center EDC She is the implementation director for the Pathways to Mathematics Achievement Study and a mathematics specialist for the NSF funded Formative Assessment in the Mathematics Classroom Engaging Teachers and Students FACETS and Differentiated Professional Development Building Mathematics Knowledge for Teaching Struggling Students DPD projects She also serves as a project director for an Institute for Educational Science IES project Eliciting Mathematics Misconceptions EM2 Carolyn B Arline is a secondary mathematics educator currently teaching high school students in Maine She also works as a teacher leader in the areas of mathematics professional development learning communities assessment systematic school reform standards based teaching learning and grading student centered classrooms and technology She has previously worked as a mathematics specialist at the Maine Mathematics and Science Alliance MMSA and continues her work with them as a consultant

### **Architectural Approach to Level Design**

Christopher W. Totten, 2019-04-25 Written by a game developer and professor trained in architecture An Architectural Approach to Level Design is one of the first books to integrate architectural and spatial design theory with the field of level design It explores the principles of level design through the context and history of architecture Now in its second edition An Architectural Approach to Level Design presents architectural techniques and theories for you to use in your own work The author connects architecture and level design in different ways that address the practical elements of how designers construct space and the experiential elements of how and why humans interact with that space It also addresses industry issues like how to build interesting tutorial levels and how to use computer generated level design systems without losing the player focused design of handmade levels Throughout the text you will learn skills for spatial layout evoking emotion through gamespaces and creating better levels through architectural theory FEATURES Presents case studies that offer insight on modern level design practices methods and tools Presents perspectives from industry designers independent game developers scientists psychologists and academics Explores how historical structures can teach us about good level design Shows how to use space to guide or elicit emotion from players Includes chapter exercises that encourage you to use principles from the chapter in digital prototypes playtesting sessions paper mock ups and design journals Bringing together topics in game design and architecture this book helps you create better spaces for your games Software independent the book discusses tools and techniques that you can use in crafting your interactive worlds

**Common Core Mathematics, A Story of Functions: Geometry, Module 2** Common Core, 2015-01-20 Common Core Mathematics A Story of Functions Geometry Module 2 Similarity Proof and Trigonometry Created by teachers for teachers the research based curriculum in

this series presents a comprehensive coherent sequence of thematic units for teaching the skills outlined in the CCSS for Mathematics With four color illustrations complete lesson plans and reproducible student worksheets and assessments this resource is uniquely designed to support teachers in developing content rich integrated learning experiences that adhere to established standards and encourage student engagement Developed by Common Core a non profit advocacy group dedicated to producing content rich liberal arts curricula for America's K 12 schools Common Core Mathematics is the most comprehensive CCSS based mathematics curriculum available today The modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself They embody the instructional shifts and the standards for mathematical practice demanded by the CCSS Each module contains a sequence of lessons that combine conceptual understanding fluency and application to meet the demands of each topic in the module Formative assessments are included to support data driven instruction The modules are written by teams of master teachers and mathematicians This Module addresses Similarity Proof and Trigonometry

### **Technology Integration and**

**Transformation in STEM Classrooms** Martin, Christie, Miller, Bridget T., Polly, Drew, 2022-10-28 Teacher and student access to technology in both schools and at home continues to rise Due to this increase there is a need to examine how technology is supporting teaching and learning in STEM classrooms from early childhood through college level mathematics To ensure it is utilized appropriately further study on the use of technology in classrooms where students are learning science technology engineering and mathematics content is required Technology Integration and Transformation in STEM Classrooms offers meaningful and comprehensive examples of implementing technology to support STEM teaching and learning and provides a deeper understanding of how to ensure technology is used to enhance the learning environment The book also details how educators can select effective learning tools for their classrooms Covering key topics such as student engagement active learning teacher leaders and e learning this reference work is ideal for administrators policymakers educational leaders researchers academicians scholars practitioners instructors and students

### **Common Core**

**Mathematics, A Story of Functions: Algebra II, Module 2** Common Core, 2015-01-20 The most comprehensive Common Core State Standards based mathematics curriculum available today Common Core Math embodies the instructional shifts and the standards for mathematical practice that are fundamental to the CCSS The modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself With Common Core Mathematics eleventh graders learn about polynomial rational and radical relationships trigonometric functions as well as making inferences and conclusions from data This module introduces tenth graders to trigonometric functions Modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself Each module contains a sequence of lessons that combine conceptual understanding fluency and application to meet the demands of each topic in the module Formative assessments are included to support data driven instruction Carefully

sequenced and expertly crafted Common Core Mathematics A Story of Units provides teachers with a reliable and practical guide to guiding and inspiring students while adhering to the standards of the Common Core State Standards *Teaching the Common Core Math Standards with Hands-On Activities, Grades 9-12* Gary R. Muschla, 2015-04-17 Bring Common Core Math into high school with smart engaging activities Teaching Common Core Math Standards with Hands On Activities Grades 9-12 provides high school teachers with the kind of help they need to begin teaching the standards right away This invaluable guide pairs each standard with one or more classroom ready activities and suggestions for variations and extensions Covering a range of abilities and learning styles these activities bring the Common Core Math Standards to life as students gain fluency in math communication and develop the skillset they need to tackle successively more complex math courses in the coming years Make math anxiety a thing of the past as you show your students how they use math every day of their lives and give them the cognitive tools to approach any math problem with competence and confidence The Common Core Standards define the knowledge and skills students need to graduate high school fully prepared for college and careers Meeting these standards positions American students more competitively in the global economy and sets them on a track to achieve their dreams This book shows you how to teach the math standards effectively and facilitate a deeper understanding of math concepts and calculations Help students apply their understanding of math concepts Teach essential abstract and critical thinking skills Demonstrate various problem solving strategies Lay a foundation for success in higher mathematics The rapid adoption of the Common Core Standards across the nation has left teachers scrambling for aligned lessons and activities If you want to bring new ideas into the classroom today look no further Teaching Common Core Math Standards with Hands On Activities is the high school math teacher's solution for smart engaging Common Core math McGraw-Hill Education Math Grade 8, Second Edition McGraw Hill, 2017-11-03 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product All the Math Your 3rd Grader Needs to Succeed This book will help your elementary school student develop the math skills needed to succeed in the classroom and on standardized tests The user friendly full color pages are filled to the brim with engaging activities for maximum educational value The book includes easy to follow instructions helpful examples and tons of practice problems to help students master each concept sharpen their problem solving skills and build confidence Features include A guide that outlines national standards for Grade 3 Concise lessons combined with lots of practice that promote better scores in class and on achievement tests A pretest to help identify areas where students need more work End of chapter tests to measure students progress A helpful glossary of key terms used in the book More than 1 000 math problems with answers Topics covered Addition and subtraction Multiplication and division Place values Rounding and estimating Fractions Measuring length mass volume and time Lines angles and polygons Charts and graphs Perimeter and area Word problems **McGraw Hill Math Grade 8, Third Edition** McGraw Hill, 2022-08-11 An engaging math workbook

to help your 8th grade student master the skills necessary to perform better in class and on standardized tests Colorful dynamic and filled with engaging activities McGraw Hill Math Grade 8 Third Edition provides maximum educational value giving your 8th grader a student friendly learning experience to learn and practice the skills they need to do well in school and on standardized tests Based on the curriculum standards followed by states across the U S McGraw Hill Math Grade 8 covers key topics with easy to follow instructions helpful examples and more than 1 000 practice problems with answers End of chapter tests allow your child to see where mastery has been gained and what they need to focus on As they master each concept you child will sharpen their problem solving skills and build the confidence they need to succeed in eighth grade math Features include NEW Addition of real world questions and multi step problems A state by state guide shows you how to focus your child s lessons The guide shows which states have adopted Common Core State Standards how each state has implemented the standards for math and outlines the standards for non Common Core states 1 000 math problems with explanations for answers A 10 Week Summer Study Plan shows you how to create the best study schedule for your child A pretest helps your child determine which skills require more attention End of chapter tests helps your child assess if they ve mastered the chapter s concepts Posttest at the end of the book shows your child how well they understand key concepts A glossary explains key terms that students will encounter in the book Topics covered Solving problems with rational numbers Approximating irrational numbers Ratios proportions and percents Roots and exponents Performing operations with scientific notation Analyzing and solving linear equations and pairs of linear equations Graphing proportional relationships and functions Customary and metric units of measure including conversions Geometric transformations Using the Pythagorean Theorem Solving problems involving volume of cones and spheres Analyzing patterns in bivariate data including probability *Common Core Standards for High School Mathematics* Amitra Schwols,Kathleen Dempsey,2012-11-14 Smart implementation of the Common Core State Standards requires both an overall understanding of the standards and a grasp of their implications for planning teaching and learning This Quick Start Guide provides a succinct all in one look at The structure terminology and emphases of the Common Core mathematics standards at the high school level including the areas that represent the most significant changes to business as usual The meaning of the individual content standards addressed by domain and cluster within all five conceptual categories Number and Quantity Algebra Functions Geometry and Statistics and Probability How the content standards practice standards and designated modeling standards connect across domains categories grade bands and traditional course boundaries to help students develop both deep conceptual understanding and functional real world application skills Here mathematics teachers and teacher leaders will find information they need to begin adapting their courses and practices to ensure all students master the new and challenging material the standards present and graduate ready for college or career A practical lesson planning process to use with the Common Core based on Classroom Instruction That Works 2nd Ed is included along with three sample lessons LEARN THE ESSENTIALS OF THE

COMMON CORE The grade level and subject specific Quick Start Guides in the Understanding the Common Core Standards series edited by John Kendall are designed to help school leaders and school staffs turn Common Core standards into coherent content rich curriculum and effective classroom level lessons **Eureka Math, A Story of Ratios: Grade 8**

**Module 5** Great Minds,2014-05-19 Common Core Eureka Math for Grade 8 Module 5 Created by teachers for teachers the research based curriculum in this series presents a comprehensive coherent sequence of thematic units for teaching the skills outlined in the CCSS for Mathematics With four color illustrations complete lesson plans and reproducible student worksheets and assessments this resource is uniquely designed to support teachers in developing content rich integrated learning experiences that adhere to established standards and encourage student engagement Developed by Common Core a non profit advocacy group dedicated to producing content rich liberal arts curricula for America s K 12 schools Common Core Mathematics is the most comprehensive CCSS based mathematics curriculum available today The modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself They embody the instructional shifts and the standards for mathematical practice demanded by the CCSS Each module contains a sequence of lessons that combine conceptual understanding fluency and application to meet the demands of each topic in the module Formative assessments are included to support data driven instruction The modules are written by teams of master teachers and mathematicians This Module addresses Examples of Functions from Geometry Common Core Learning Standards Addressed in Grade 8 Module 5 8 F 1 8 F 2 8 F 3 8 G 9 **Eureka Math, A Story of Functions:**

**Pre-Calculus, Module 3** Great Minds,2016-07-25 Common Core Eureka Math for Grade 12 Module 3 Created by teachers for teachers the research based curriculum in this series presents a comprehensive coherent sequence of thematic units for teaching the skills outlined in the CCSS for Mathematics With four color illustrations complete lesson plans and reproducible student worksheets and assessments this resource is uniquely designed to support teachers in developing content rich integrated learning experiences that adhere to established standards and encourage student engagement Developed by Common Core a non profit advocacy group dedicated to producing content rich liberal arts curricula for America s K 12 schools Common Core Mathematics is the most comprehensive CCSS based mathematics curriculum available today The modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself They embody the instructional shifts and the standards for mathematical practice demanded by the CCSS Each module contains a sequence of lessons that combine conceptual understanding fluency and application to meet the demands of each topic in the module Formative assessments are included to support data driven instruction The modules are written by teams of master teachers and mathematicians This Module addresses Rational and Exponential Functions

**Excel 2002: Core, Annotated Instructor Edition with CD-ROM** Hinkle,Kathleen Stewart,2001-11 **Eureka Math, A Story of Functions: Algebra I, Module 4** Great Minds,2014-02-17 Common Core Eureka Mathfor Algebra I Module 4 Created by

teachers for teachers the research based curriculum in this series presents a comprehensive coherent sequence of thematic units for teaching the skills outlined in the CCSS for Mathematics With four color illustrations complete lesson plans and reproducible student worksheets and assessments this resource is uniquely designed to support teachers in developing content rich integrated learning experiences that adhere to established standards and encourage student engagement Developed by Common Core a non profit advocacy group dedicated to producing content rich liberal arts curricula for America's K 12 schools Common Core Mathematics is the most comprehensive CCSS based mathematics curriculum available today The modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself They embody the instructional shifts and the standards for mathematical practice demanded by the CCSS Each module contains a sequence of lessons that combine conceptual understanding fluency and application to meet the demands of each topic in the module Formative assessments are included to support data driven instruction The modules are written by teams of master teachers and mathematicians This Module addresses Polynomial and Quadratic Expressions and Functions Common Core Learning Standards Addressed in Algebra I Module 4 N RN 3 A SSE 1 A SSE 2 A SSE 3 A APR 1 A APR 3 A CED 1 A CED 2 A REI 4 A REI 11 F IF 4 F IF 5 F IF 6 F IF 7 F IF 8 F IF 9 F BF 3

**Eureka Math, A Story of Functions: Pre-Calculus, Module 4** Great Minds, 2016-07-25 Common Core Eureka Math for Grade 12 Module 4 Created by teachers for teachers the research based curriculum in this series presents a comprehensive coherent sequence of thematic units for teaching the skills outlined in the CCSS for Mathematics With four color illustrations complete lesson plans and reproducible student worksheets and assessments this resource is uniquely designed to support teachers in developing content rich integrated learning experiences that adhere to established standards and encourage student engagement Developed by Common Core a non profit advocacy group dedicated to producing content rich liberal arts curricula for America's K 12 schools Common Core Mathematics is the most comprehensive CCSS based mathematics curriculum available today The modules are sequenced and paced to support the teaching of mathematics as an unfolding story that follows the logic of mathematics itself They embody the instructional shifts and the standards for mathematical practice demanded by the CCSS Each module contains a sequence of lessons that combine conceptual understanding fluency and application to meet the demands of each topic in the module Formative assessments are included to support data driven instruction The modules are written by teams of master teachers and mathematicians This Module addresses Trigonometry     *Common Core Mathematics in a PLC at Work™, Grades 6-8* Diane J. Briars, David Foster, 2012-10-26 This teacher guide illustrates how to sustain successful implementation of the Common Core State Standards for mathematics grades 6-8 Discover what students should learn and how they should learn it at each grade level Comprehensive research affirmed analysis tools and strategies will help you and your collaborative team develop and assess student demonstrations of deep conceptual understanding and procedural fluency

## Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Common Core Math Functions Lesson**

In some sort of inundated with monitors and the cacophony of fast communication, the profound power and psychological resonance of verbal art usually fade in to obscurity, eclipsed by the regular assault of noise and distractions. However, situated within the musical pages of **Common Core Math Functions Lesson**, a captivating work of literary elegance that impels with organic thoughts, lies an unique trip waiting to be embarked upon. Penned by a virtuoso wordsmith, this exciting opus transports viewers on a psychological odyssey, lightly exposing the latent potential and profound impact stuck within the intricate internet of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book's main themes, dissect their fascinating writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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where  $\alpha$  is the resulting vector angle  $y$  is the resulting vector vertical offset  $c$  is the sum of the two force vectors  $a$  is the first force vector  $b$  is the second force vector

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