

Sum and Difference Identities

Precalculus
HS Mathematics
Unit 06 Lesson 02

Classify each statement as true or false, then explain your reasoning.

_____ 1) $\sin(90^\circ) = \sin(90^\circ) + \sin(0^\circ)$

_____ 3) $\sin(30^\circ) + \sin(60^\circ) = \sin(90^\circ)$

_____ 2) $\cos(90^\circ) = \cos(90^\circ) + \cos(0^\circ)$

_____ 4) $\tan(45^\circ) + \tan(45^\circ) = \tan(90^\circ)$

From these examples, recognize that the _____ property does NOT apply when using the trigonometric functions.

_____ property does NOT apply

...So what rules do apply?

Sum and Difference Identities

$$\sin(A + B) = \sin A \cos B + \cos A \sin B$$

$$\sin(A - B) = \sin A \cos B - \cos A \sin B$$

$$\cos(A + B) = \cos A \cos B - \sin A \sin B$$

$$\cos(A - B) = \cos A \cos B + \sin A \sin B$$

$$\tan(A + B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$$

$$\tan(A - B) = \frac{\tan A - \tan B}{1 + \tan A \tan B}$$

A. Demonstrate Demonstrate that each identity works by substituting the given values for A and B.

Sample: $\cos(A + B) = \cos A \cos B - \sin A \sin B$, when $A = \frac{\pi}{4}$ and $B = \frac{\pi}{4}$

Write the identity: $\cos(A + B) = \cos A \cos B - \sin A \sin B$

Substitute: $\cos(\frac{\pi}{4} + \frac{\pi}{4}) = \cos \frac{\pi}{4} \cos \frac{\pi}{4} - \sin \frac{\pi}{4} \sin \frac{\pi}{4}$

Evaluate: $\cos(\frac{\pi}{2}) = (\frac{1}{2}) \cdot (\frac{\sqrt{2}}{2}) - (\frac{\sqrt{2}}{2}) \cdot (\frac{1}{2})$

Simplify: $0 = \frac{\sqrt{2}}{4} - \frac{\sqrt{2}}{4}$

$0 = 0 \checkmark$

5) $\cos(A - B) = \cos A \cos B + \sin A \sin B$, when $A = \frac{\pi}{4}$ and $B = \frac{\pi}{4}$

Hs Mathematics Unit 05 Lesson 1 Answer Key

**Dana T. Johnson, Marguerite M.
Mason, Jill Adelson**



Hs Mathematics Unit 05 Lesson 1 Answer Key:

Resources in Education ,1998-04 **The Mathematics Lesson-Planning Handbook, Grades 3-5** Ruth Harbin Miles,Beth McCord Kobett,Lois A. Williams,2018-07-13 This book brings together the best of Visible Learning and the teaching of mathematics The chapters on learning intentions success criteria misconceptions formative evaluation and knowing thy impact are stunning Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math it s a great go to book for all who teach mathematics John Hattie Laureate Professor Deputy Dean of MGSE Director of the Melbourne Education Research Institute Melbourne Graduate School of Education YOU are the architect in the mathematics classroom When it comes to mathematics lessons do you sometimes feel overly beholden to the required texts from which you teach Do you wish you could break the mold but feel like you get conflicting guidance on the right things to do How often do you find yourself in the last minute online scramble for a great task activity that will capture your students interest and align to your state standards In *The Mathematics Lesson Planning Handbook Grades 3 5 Your Blueprint for Building Cohesive Lessons* you ll learn the streamlined decision making processes that will help you plan the focused research based standards aligned lessons your students need This daily reference offers practical guidance for when and how to pull together mathematics routines resources and effective teaching techniques into a coherent and manageable set of lesson plans This resource will Lead teachers through a process of lesson planning based on various learning objectives Set the stage for lesson planning using relatable vignettes Offer sample lesson plans for Grades 3 5 Create opportunities to reflect on each component of a mathematics lesson Suggest next steps for building a unit from the lessons Provide teachers the space and tools to create their own lesson plans going forward Based on years of classroom experience from seasoned mathematics educators this book brings together the just in time resources and practical advice you need to make lesson planning simple practical and doable From laying a solid foundation to choosing the right materials you ll feel confident structuring lessons that lead to high student achievement **Research in Education** ,1973 *Test Prep, High School* Carson-Dellosa Publishing Staff,Spectrum,Spectrum Staff,2001-03-06 Developed by experts experienced in high stakes testing American Education Publishing Test Prep provides the essential preparation that young learners need to acheive success on proficiency tests American Education Publishing Test Prep takes the mystery out of what to expect on test day by explaining strategies and techniques for answering different kinds of questions Multiple tests in reading math and language arts provide comprehensive practice in key subjects required for proficiency **Polygons Galore** Dana T. Johnson,Marguerite M. Mason,Jill Adelson,2021-09-03 Polygons Galore is a mathematics unit for high ability learners in grades 3 5 focusing on 2 D and 3 D components of geometry by exploring polygons and polyhedra and their properties The van Hiele levels of geometric understanding provide conceptual underpinnings for unit activities The unit consists of nine lessons that include student discovery of properties of polygons and polyhedra investigations for finding areas of triangles

and quadrilaterals study of the Platonic solids and real world applications of polygons and polyhedra It also includes activities related to identifying comparing and analyzing polygons by using properties of the polygons constructing meanings for geometric terms developing strategies to find areas of specific polygons identifying and building regular and nonregular polyhedra and recognizing geometric ideas and relationships as applied in daily life and in other disciplines such as art Grades 3-5

Expertise in Mathematics Instruction Yeping Li, Gabriele Kaiser, 2010-12-15 Accumulated research findings in past decades have led to the common knowledge that teachers professional knowledge is essential to effective classroom instruction However there is still very limited understanding about the nature of teachers expertise in mathematics instruction Expertise in Mathematics Instruction addresses this need clearly and concisely In particular it examines all aspects of emphases employed to characterize the nature of expertise in mathematics instruction from both researchers and practitioners perspectives Moreover with research contributions from both the East and the West this book also examines ideas pertinent to fostering and demonstrating expertise in mathematics instruction within different system contexts This book will raise questions and issues for mathematics education researchers to guide a critical examination of what can be learned from other education systems Expertise in Mathematics Instruction builds on its theoretical and methodological approach with contributions from international experts in the field Additionally a review of related research from mathematics education serves as an introduction to the new research in both Eastern and Western settings Concluding this resource is a reflection on the benefits of this international collaboration and possible research directions for the future The final chapter cohesively joins traditional and current research for action Expertise in Mathematics Instruction is of interest to researchers in mathematics education mathematics teacher educators and mathematics educators

Moving Through Dimensions Clg Of William And Mary/Ctr Gift Ed, 2021-09-03 Moving Through Dimensions approaches spatial reasoning through one dimensional two dimensional and three dimensional tasks designed for students in the middle school grades The unit also asks students to explore the transition between dimensions and representations of three dimensional objects in two dimensions This book includes pre and postassessments multiple reproducible materials and lessons based on NCTM standards Moving Through Dimensions was developed by the Center for Gifted Education at The College of William and Mary to offer advanced curriculum supported by years of research The Center s materials have received national recognition from the United States Department of Education and the National Association for Gifted Children and they are widely used both nationally and internationally Each of the books in this series offers curriculum that focuses on advanced content and higher level processes The science units contain simulations of real world problems and students experience the work of real science by using data handling skills analyzing information and evaluating results The mathematics units provide sophisticated ideas and concepts challenging extensions higher order thinking skills and opportunities for student exploration based on interest These materials are a must for any teacher seeking to challenge and engage learners and

increase achievement Grades 6-8 *Advanced General Education Program* Job Corps (U.S.),1969 Teaching and Learning High School Mathematics Charlene E. Beckmann,Denisse R. Thompson,Rheta N. Rubenstein,2009-11-02 Too many high school students faced with mathematics in courses at the level of algebra and beyond find themselves struggling with abstract concepts and unwilling to pursue further study of mathematics When students curtail their course taking in mathematics they may be impacting their college and career options Thus high school mathematics teachers have the responsibility to help students recognize the value and importance of mathematics while also designing instruction that makes mathematics accessible to all students Ball and Bass 2000 as well as other mathematics educators have recognized that mathematics teachers not only need to know mathematics content and mathematics pedagogy i.e. teaching strategies but they also need to know how these ideas are integrated This mathematical knowledge for teaching is the knowledge that teachers of mathematics need and it differs from the knowledge that research or applied mathematicians must know This text is designed to provide teachers with insights into this mathematical knowledge for teaching Teaching and Learning High School Mathematics is likely different from many other texts that you have used It integrates both content and pedagogy to help you develop and build your own understanding of teaching The text is designed to help you develop deep conceptual understanding of fundamental mathematics Ma 1999 so that you are able to approach mathematics from multiple perspectives with many tools Such flexibility in teaching is essential if teachers are to help all students become mathematically proficient Throughout this book you are encouraged to work in cooperative teams This strategy is designed to help you develop a mathematics learning community and build a professional network that will be a valuable resource during your professional career Hopefully you will experience the benefits of engaging in rich mathematical discussions with peers and consider how to encourage such learning environments in your own classrooms Lesson planning is another element pervasive throughout this text To help teachers plan for effective student centered lessons the Question Response Support QRS Guide is introduced in Lesson 1.1 and used throughout the remainder of the lessons The QRS Guide is a tool on which teachers may record tasks or questions Q for students expected and observed student responses R and teacher support S in the form of additional just enough questions to support students in their progress on the task In each unit teachers expand their repertoire of teaching and learning elements and strategies and incorporate these elements as they plan additional lesson segments In Unit 4 lesson planning is formally introduced as teachers put together elements from previous units into complete cohesive lesson plans **The Mathematics Lesson-Planning Handbook, Grades K-2** Beth McCord Kobett,Ruth Harbin Miles,Lois A. Williams,2018-02-09 This book brings together the best of Visible Learning and the teaching of mathematics The chapters on learning intentions success criteria misconceptions formative evaluation and knowing thy impact are stunning Rich in exemplars grounded in research about practice and with the right balance about the surface and deep learning in math it's a great go to book for all who teach mathematics John Hattie Laureate Professor

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Your blueprint to planning K 2 math lessons for maximum impact and understanding Not sure of tomorrow morning s lesson plan Or maybe you feel it isn t tailored enough for your students needs What do you do For that and more help is here The Mathematics Lesson Planning Handbook Grades K 2 Your Blueprint for Building Cohesive Lessons guides teachers step by step through the decision making process of planning K 2 math lessons that are purposeful rigorous and coherent

Instructional experts Beth McCord Kobett Ruth Harbin Miles and Lois A Williams streamline and deepen the lesson planning process showing teachers how to access students complex needs clarify learning intentions and select tasks that will best lead to student understanding of mathematical concepts and skills Along the way teachers create an individualized blueprint for planning K 2 math lessons for maximum student learning The lesson planning process guides teachers to Identify the mathematical content language and social learning intentions for a lesson or unit and connect goals to success criteria Determine the purpose of a math lesson you re planning by distinguishing between conceptual understanding procedural fluency and transfer Select worthwhile tasks and materials that make the best use of representations manipulatives and other instructional tools and resources Choose the format of your lesson using reasoning and number routines games whole class discussion and pairs or small group work Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Decide how you ll launch your lesson facilitate questioning encourage productive struggle and close your lesson Included is a lesson planning template and examples from kindergarten first and second grade classrooms Chapter by chapter the decision making strategies empower teachers to plan math lessons strategically to teach with intention and confidence and to build an exceptional foundation in math for all students

Engaging in Culturally Relevant Math Tasks, 6-12 Lou Edward Matthews, Shelly M. Jones, Yolanda A. Parker, 2022-12-01 Empower your students as they reimagine the world around them through mathematics Culturally relevant mathematics teaching engages students by helping them learn and understand math more deeply and make connections to themselves their communities and the world around them The mathematics task provides opportunities for a direct pathway to this goal But many teachers ask how can you find adapt and implement math tasks that build powerful learners Engaging in Culturally Relevant Math Tasks helps teachers to design and refine inspiring mathematics learning experiences driven by the kind of high quality and culturally relevant mathematics tasks that connect students to their world With the goal of inspiring all students to see themselves as doers of mathematics this book provides intensive in the moment guidance and practical classroom tools that empower educators to shape culturally relevant experiences while systematically building tasks that are standards based It includes A pathway for moving through the process of asking imagining planning creating and improving culturally relevant math tasks Tools and strategies for designing culturally relevant math tasks that preservice novice and veteran teachers can use to grow their practice day by day Research based teaching practices seen through the lens of culturally relevant instruction that help

students develop deep conceptual understanding procedural knowledge fluency and application in 6 12 mathematical content Examples milestones opportunities for reflection and discussion questions guide educators to strengthen their classroom practices and to reimagine math instruction in response This book is for any educator who wants to teach mathematics in a more authentic inclusive and meaningful way and it is especially beneficial for teachers whose students are culturally different from them

ICT Framework Solutions Year 7 Stephen Doyle,2004 This suite of straightforward easy to manage suite of resources comprises a Student Book and Teacher Support Pack and CD ROM for each of years 7 8 and 9

Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 5 University of Chicago. School Mathematics Project,2007 The Teacher s Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips and multilevel differentiation strategies for all learners This English Spanish Edition provides dual language support

Trade and Industrial Education ,1972

Everyday Mathematics Max Bell,2004 Contains easy to follow three part daily lesson plans This assists teachers in focusing on lesson objectives providing ongoing practice for all students and addressing individual student needs for a variety of populations A unit organizer provides learning goals planning and assessment support content highlights a materials chart suggestions for problem solving cross curricular links and options for individualizing Each guide is grade level specific

The Mathematics Lesson-Planning Handbook, Grades 6-8 Lois A. Williams,Beth McCord Kobett,Ruth Harbin Miles,2018-12-28 Your blueprint to planning Grades 6 8 math lessons that lead to achievement for all learners When it comes to planning mathematics lessons do you sometimes feel burdened Have you ever scrambled for an activity to engage your students that aligns with your state standards Do you ever look at a recommended mathematics lesson plan and think This will never work for my students The Mathematics Lesson Planning Handbook Your Blueprint for Building Cohesive Lessons Grades 6 8 walks you step by step through the process of planning focused research based mathematics lessons that enhance the coherence rigor and purpose of state standards and address the unique learning needs of your individual students This resource deepens the daily lesson planning process for middle school teachers and offers practical guidance for merging routines resources and effective teaching techniques into an individualized and manageable set of lesson plans The effective planning process helps you Identify learning intentions and connect goals to success criteria Select resources and worthwhile tasks that make the best use of instructional materials Structure lessons differently for traditional and block middle school schedules Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques Facilitate questioning encourage productive struggle and close lessons with reflection techniques This author team of seasoned mathematics educators make lesson planning practical and doable with a useful lesson planning template and real life examples from Grades 6 8 classrooms Chapter by chapter the decision making strategies empower teachers to plan mathematics lessons strategically to teach with intention and confidence and to build purposeful rigorous coherent lessons

that lead to mathematics achievement for all learners **El-Hi textbooks in print** R. R. Bowker LLC,1983 *A College Course in Business Mathematics* Henry Smithline,Clyde Ordell Thompson,1942 Vocational Division Bulletin United States. Division of Vocational and Technical Education,1939 *Resources in Vocational Education* ,1977

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