

# 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

**Marcel A. Müller**



## **Hs Mathematics Unit 05 Lesson 1 Answer Key:**

**Research in Education**, 1973      **Resources in Education**, 1998-04      **Research in Education**, 1968      **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 achieve 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      **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 is 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 will 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      **Advanced General Education Program** Job Corps (U.S.),1969      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      **Bulletin** University of Oklahoma,1919

*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

## **Hs Mathematics Unit 05 Lesson 1 Answer Key** Book Review: Unveiling the Power of Words

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