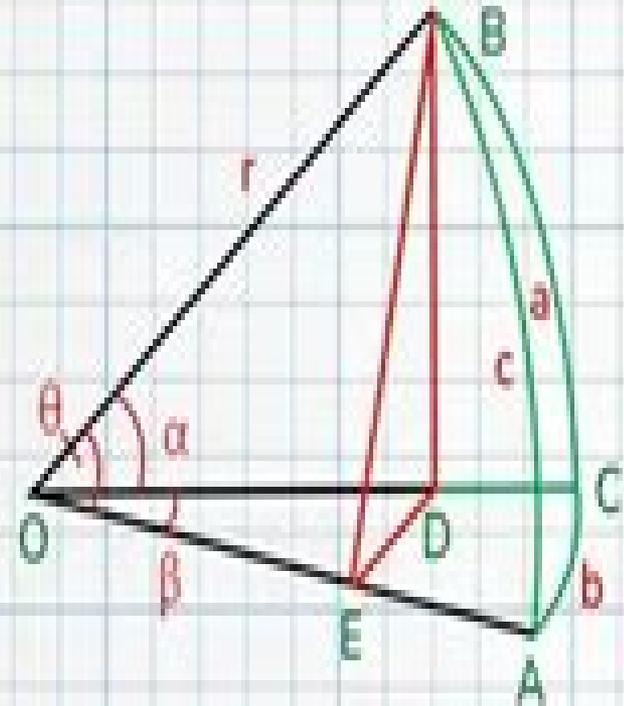




# Spherical Trigonometry



ABC: a right spherical triangle with the right angle at C on a sphere with center O and radius r

$$\cos \theta = \cos \alpha \cos \beta$$

# Spherical Trigonometry Tables

**Hannibal Albert DAVIS (and  
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**Course in Plane and Spherical Trigonometry. [With "Logarithmic and Trigonometric Tables ... Edited by C.W.**  
**Crockett."].** Hannibal Albert DAVIS (and CHAMBERS (Livingston Hunter)), Livingston Hunter CHAMBERS, 1933     *Plane*  
*and Spherical Trigonometry and Tables* George Albert Wentworth, 1901     Plane and Spherical Trigonometry and Tables  
George Wentworth, David Eugene Smith, 1915     *Plane and Spherical Trigonometry and Tables* George Albert  
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George Albert Wentworth, 1897     *Plane and Spherical Trigonometry and Tables* George Wentworth, George Anthony  
Hill, 1902     *Elements of Plane and Spherical Trigonometry* Simon Newcomb, 1882     *Plane and Spherical Trigonometry*  
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why could the knowledge be used dok level 4 extended thinking how else could you use  
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web nov 2 2018 multiple choice questions can be written at a dok 3 or 4 level however to design a question in this format is difficult an item at dok level 3 or 4 requires complex reasoning strategic and extended thinking about the concepts of the content and a real world context and especially at a level 4 that requires research investigation and  
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web sep 4 2014 dok levels are also not developmental all students including the youngest preschoolers are capable of strategic and extended thinking tasks what they look like will differ and what is level 3 to a kindergarten student may be a level 1 task for a middle schooler all students however should have opportunities to do complex reasoning  
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web dok 3 3 lafs 3 rl 1 2 recount stories including fables folktales and myths from diverse cultures determine the central message lesson or moral and explain how it is conveyed through key details in the text dok 2 4 lafs 4 rl 1 2 determine a theme of a story drama or poem from details in the text summarize the text dok 3  
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web jan 13 2020 3 describe the 7 different types of quadrilaterals along with diagrams 4 discern the derivative of  $f(x)$  5 fill in the blanks with appropriate numbers x 2 3 dok level 3 connect the highlighted points and calculate the areas of all the triangles rectangles and squares that are possible  
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web at dok level 3 the depth of knowledge questions for science should focus on a concept that has more than one possible answer at dok 3 students will design investigations around scientific questions evaluate models of engineering solutions justify conclusions based on experimental data with reasoning and evidence dok 4

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web level 3 strategic thinking requires reasoning planning using evidence and a higher level of thinking than the previous two levels in most instances requiring students to explain their thinking is a level 3 activities that require students to make conjectures are also at this level the cognitive demands at level 3 are complex and abstract

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web i ve decided to expand upon my previous depth of knowledge matrix that helped make it easier to distinguish between depth of knowledge levels in mathematics while it is still useful it didn t cover every grade level and may be too broad in scope so i have made two new depth of knowledge matrices one for elementary mathematics and one for  
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web if there is a question regarding which of two levels a standard addresses such as level 1 level 2 or level 2 level 3 it is appropriate to assign the highest level as the dok ceiling for the task but also provide opportunities at the lower dok levels as an instructional progression e g summarizing a text dok 2 before

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web dok level 4 extended thinking this is the most advanced stage of the depth of knowledge framework and involves students making a significant cognitive effort it encourages students to gather information from multiple resources to solve a specific problem it also motivates them to know the how and why of things

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web 1 how will you plan to use this in your classroom during whole group or small group instruction and why 2 when do you see the need to use dok question level 3 and dok question level 4 in your classroom 3 looking at your content and standard s objectives create 3 4 questions using dok level 3 and dok level 4