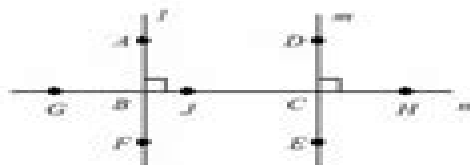


Geometry Semester#1 Final Study Guide - Chapters 1-6

#1-3: Use this diagram to answer True or False:



1. \overline{DC} is perpendicular to line n .

TRUE

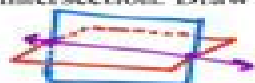
2. $\angle FBG$ and $\angle FBJ$ are complementary.

FALSE

3. Points D , J , and F are collinear.

FALSE

4. Two distinct planes intersect. Describe their intersection. Draw a sketch to support your answer.



IF 2 planes intersect, then they intersect at a line.

5. Q is between P and R . $PQ = 2w - 3$, $QR = 4 + w$, $PR = 34$. Find the value of w . Then find the lengths of PQ and QR .



$$2w - 3 + 4 + w = 34$$

$$w = 11$$

6. Find the midpoint of the segment with endpoints $(-3, -8)$ and $(-9, -5)$.

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) = \left(\frac{-3 + -9}{2}, \frac{-8 + -5}{2} \right) = \left(-6, -\frac{13}{2} \right)$$

7. Find the distance between the points $(2, 1)$ and $(-2, -6)$.

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} = \sqrt{(-2 - 2)^2 + (-6 - 1)^2} = \sqrt{65}$$

8. $m\angle JHI = (2x + 7)^\circ$ and $m\angle GHI = (8x - 2)^\circ$ and $m\angle JHG = 65^\circ$. Find $m\angle JHI$ and $m\angle GHI$.

$$2x + 7 + 8x - 2 = 65$$

$$x = 6$$



$$m\angle JHI = 19^\circ$$

$$m\angle GHI = 46^\circ$$

9. In the figure (not drawn to scale), \overline{MO} bisects $\angle LMN$, $m\angle LMO = (7x - 27)^\circ$, and $m\angle NMO = (x + 57)^\circ$. Solve for x and find $m\angle LMN$.



$$7x - 27 = x + 57$$

$$x = 14$$

$$m\angle LMN = 142^\circ$$

10. Name a polygon with 6 sides.

Hexagon

11. If $\angle R$ and $\angle S$ are supplementary and $m\angle R = 36^\circ$, then $m\angle S = ?$

$$144^\circ$$

Geometry Second Semester Assessment Study Guide

RC Schank

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

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A Study of Ability Grouping in Second Semester Plane Geometry Clarence Arthur Bohner, 1928 *Teachers' Guide to Child Development* Arch Oliver Heck, California. State Curriculum Commission, Edith Anna Lathrop, Fletcher Bascom Dresslar, Frank Kale Foster, Gabriel E. Loftfield, James Frederick Abel, James Frederick Rogers, Walter Herbert Gaumnitz, Ward W Keesecker, Haskell Pruett, 1930 **Manual of the Course of Study in the Primary and Grammar Departments** Ann Arbor Public Schools, 1898 Catalog United States Armed Forces Institute, 1971 **Hyperfocus** Ron Travis Sr., 2010-03-15 In 2009 Ron and June worked with their oldest grandson Trey to add structure into his life that would allow him to control the negative characteristics of Attention Deficit Disorder ADD including distractibility inattention impulsivity and restlessness While researching ADD Ron was introduced to the positive characteristic of HYPERFOCUS This allows people with ADD to focus intently with passion creativity and enthusiasm on things they are interested in Ron also realized that the tools and structure he has spent his entire career teaching to others were all based on the same principles needed by people with ADD They require permanent structure and perhaps medication to overcome the negative characteristics and benefit from the positive characteristic of Hyperfocus and creativity Setting long term goals for 15 years out Breaking these goals down into 3 year increments Setting goals for the current year by months Preparing a calendar for the current month Preparing a To Do list for what has to be done today Becoming motivated and focused on the To Do list in order of priority knowing that you will be successful in reaching your life goals and dreams **Bulletin of Information**, 1927 *Research in Education*, 1974 **Home Learning Year by Year** Rebecca Rupp, 2009-02-04 Finally homeschoolers have a comprehensive guide to designing a homeschool curriculum from one of the country's foremost homeschooling experts Rebecca Rupp presents a structured plan to ensure that your children will learn what they need to know when they need to know it from preschool through high school Based on the traditional pre K through 12th grade structure Home Learning Year by Year features The integral subjects to be covered within each grade Standards for knowledge that should be acquired by your child at each level Recommended books to use as texts for every subject Guidelines for the importance of each topic which knowledge is essential and which is best for more expansive study based on your child's personal interests Suggestions for how to sensitively approach less academic subjects such as sex education and physical fitness **Resources in Education**, 1997 California Quarterly of Secondary Education, 1925 **Bulletin**, 1960 Bulletin United States. Office of Education, 1959 *Statistics of Land-grant Colleges and Universities* United States. Office of Education, 1960 *Bibliography of Research Studies in Education*, 1932 California Quarterly of Secondary Education, 1931 **Manual and Course of Study for the High Schools of Alaska**, 1929 **An Annotated Bibliography of Mental Tests and Scales ...** Charles Kilord Athen Wang, 1940 *The Mathematics Teacher*, 1922 **Report of the Survey of the Schools of Newburgh, New York** Columbia University. Teachers College. Institute of Educational Research. Division of Field

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for the nitration 4.01 ml of nitric acid 4.00 ml of sulfuric acid and 4.56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4.56 ml of bromobenzene was used the amount of product predicted to be recovered was 8.7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction e.g. particularly nitration of methyl benzoate to give methyl m-nitrobenzoate thus determine the weight melting point and percentage yield of the pure methyl m-nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho/para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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1 go to the restroom and wash the affected area with lots of soap and water the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area 3 the summary to this warning is not to touch any part of your body while performing this experiment if you must leave the lab for any reason 1

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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then actual is your actual findings yield actual theoretical $\times 100$ what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1-bromo-4-nitrobenzene

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture hno₃ h₂so₄ in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion NO_2^+ which acts as the electrophilic species

nitration of bromobenzene lab report docx lab report 10 - Oct 21 2022

nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4 0ml of nitric acid and 4 0ml of sulfuric acid and will then react with 4 5ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

experiment 11 electrophilic aromatic substitution nitration - Feb 10 2022

experimental spectra reaction a fluorobenzene stock fluorobenzene 1 h 1 h 19 f 19 f 13 c nmr fid for reference only sample 1 h 1 h 19 f 19 f 13 c nmr eas nitration of fluorobenzene crude product not available for submission for credit

nitration of bromobenzene chem 154 gwu studocu - Mar 26 2023

lab writeup the purpose of this lab was to observe where substituents are added on benzene ring way of electrophilic aromatic substitution the electrophilic

5 nitration lab docx lab 5 nitration of bromobenzene - Aug 19 2022

chem 2261 lab 5 nitration of bromobenzene introduction an electrophilic aromatic substitution reaction is an important process that allows for intermediate chemical structures to be used as precursors to pharmaceuticals and other industrially produced chemicals by adding different functional groups into an aromatic ring

lab report nitration of bromomobenzene ipl org - Feb 22 2023

lab report 10 nitration of bromobenzene raekwon filmore cm 244 section 40 march 27 2018 introduction for this experiment nitration of bromobenzene was the focus of the lab the benzene is an aromatic compound and when it reacts with wither a mixture of sulfuric acid or nitric acid creates what is known as a nitro group