

Name: _____
 Geometry

Date: _____
 Band: _____

Unit 9: Circles Performance Tasks

Instructions: Choose one performance task. Write all your work on a separate clean piece of paper and attach it to this page.

Big Idea: Reasoning and Proof

You can use triangle congruence theorems to prove relationships among tangents and secants.

Performance Task 1

Four tangents are drawn from E to two concentric circles. $A, B, C,$ and D are the points of tangency. Name as many pairs of congruent triangles as possible and tell how you can show each pair is congruent.



Big Idea: Measurement

You can use facts about arcs and angle measures to solve real-world problems.

Performance Task 2

The rocks near the shore between two lighthouses at points A and B make the waters unsafe. The measure of \widehat{AXB} is 300° . Waters inside this arc are unsafe. Suppose you are a navigator on a ship at sea. How can you use the lighthouses to keep the ship in safe waters? Explain your answer.



Big Idea: Coordinate Geometry

You can use coordinates of the center of a circle and its radius to write an equation of a circle.

Performance Task 3

A gardener wants the three rosebushes in her garden to be watered by a rotating water sprinkler. The gardener draws a diagram of the garden using a grid in which each unit represents 1 ft. The rosebushes are at $(1,3)$, $(5,11)$, and $(11,4)$. She wants to position the sprinkler at a point equidistant from each rosebush. Where should the gardener place the sprinkler? Show your work. What equation described the boundary of the circular region that the sprinkler will cover?

Geometry Chapter 12 Circles Performance Task

Paul J. Schilling, Randy H. Shih



Geometry Chapter 12 Circles Performance Task:

SOLIDWORKS 2022 and Engineering Graphics Randy Shih, 2022-05 *SOLIDWORKS 2022 and Engineering Graphics* An Integrated Approach combines an introduction to SOLIDWORKS 2022 with a comprehensive coverage of engineering graphics principles Not only will this unified approach give your course a smoother flow your students will also save money on their textbooks What s more the exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered The primary goal of *SOLIDWORKS 2022 and Engineering Graphics* An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package SOLIDWORKS 2022 This text is intended to be used as a training guide for students and professionals The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings This text takes a hands on exercise intensive approach to all the important concepts of Engineering Graphics as well as in depth discussions of parametric feature based CAD techniques This textbook contains a series of sixteen chapters with detailed step by step tutorial style lessons designed to introduce beginning CAD users to the graphics language used in all branches of technical industry This book does not attempt to cover all of SOLIDWORKS 2022 s features only to provide an introduction to the software It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering

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SOLIDWORKS

2023 and Engineering Graphics: An Integrated Approach Randy Shih, 2023-05-04 SOLIDWORKS 2023 and Engineering Graphics An Integrated Approach combines an introduction to SOLIDWORKS 2023 with a comprehensive coverage of engineering graphics principles Not only will this unified approach give your course a smoother flow your students will also save money on their textbooks What s more the exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered The primary goal of SOLIDWORKS 2023 and Engineering Graphics An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package SOLIDWORKS 2023 This text is intended to be used as a training guide for students and professionals The chapters in this text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings This text takes a hands on exercise intensive approach to all the important concepts of Engineering Graphics as well as in depth discussions of parametric feature based CAD techniques This textbook contains a series of sixteen chapters with detailed step by step tutorial style lessons designed to introduce beginning CAD users to the graphics language used in all branches of technical industry This book does not attempt to cover all of SOLIDWORKS 2023 s features only to provide an introduction to the software It is intended to help you establish a good basis for exploring and growing in the exciting field of Computer Aided Engineering

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SOLIDWORKS 2021 and Engineering Graphics Randy Shih,2021-02 This book combines an introduction to SOLIDWORKS 2021 with a comprehensive coverage of engineering graphics principles

Parametric Modeling with SOLIDWORKS 2016 Randy Shih,Paul Schilling,2016-05 Parametric Modeling with SOLIDWORKS 2016 contains a series of sixteen tutorial style lessons designed to introduce SOLIDWORKS 2016 solid modeling and parametric modeling techniques and concepts This book introduces SOLIDWORKS 2016 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important parametric modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SOLIDWORKS 2016 including how to use the SOLIDWORKS Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered

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performance tasks are covered **Parametric Modeling with SOLIDWORKS 2023** Paul Schilling,Randy Shih,2023-05
Teaches you SOLIDWORKS 2023 and parametric modeling with hands on tutorials Also covers sheet metal SimulationXpress basic motion analysis collision detection and more Prepares you to take the Certified SOLIDWORKS Associate Exam Includes a chapter introducing you to 3D printing Parametric Modeling with SOLIDWORKS 2023 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2023 solid modeling and parametric modeling techniques and concepts This book introduces SOLIDWORKS 2023 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important parametric modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SOLIDWORKS 2023 including how to use the SOLIDWORKS Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered This book also introduces you to the general principles of 3D printing including a brief history of 3D printing the types of 3D printing technologies commonly used filaments and the basic procedure for printing a 3D model 3D printing makes it easier than ever for anyone to start turning their designs into physical objects and by the end of this book you will be ready to start printing out your own designs **Parametric Modeling with SOLIDWORKS 2024**
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Unveiling the Magic of Words: A Report on "**Geometry Chapter 12 Circles Performance Task**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Geometry Chapter 12 Circles Performance Task**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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