

Download Ebook Basic
Orthographic Projection
Exercises

Basic Orthographic Projection Exercises

Provides information on the principles of creating and reading engineering drawings.

Engineering Graphics Essentials with AutoCAD 2023 Instruction gives students a basic understanding of how to create and read engineering drawings by presenting principles in a logical and easy to understand manner. It covers the main topics of engineering graphics, including tolerancing and fasteners, while also teaching students the fundamentals of AutoCAD 2023. This book features independent learning material containing

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supplemental content to further reinforce these principles. Through its many different exercises this text is designed to encourage students to interact with the instructor during lectures, and it will give students a superior understanding of engineering graphics and AutoCAD. The independent learning material allows students to go through the topics of the book independently. The main content of the material contains pages that summarize the topics covered in the book. Each page has voice over content that simulates a lecture environment. There are also interactive examples that allow students to go through the instructor led and in-class

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student exercises found in the book on their own. Video tutorials of every AutoCAD lesson in the book, as well as selected problems from the book, are included to supplement the learning process.

- Multimedia Content • AutoCAD video tutorials of every lesson in the book (includes closed captioning)
- Videos demonstrating how to solve selected problems (includes closed captioning)
- Summary pages with audio lectures (includes closed captioning)
- Interactive exercises and puzzles
- Supplemental problems and solutions
- Tutorial starter files

Each chapter contains these types of exercises:

- Instructor led in-class exercises

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Students complete these exercises in class using information presented by the instructor using the PowerPoint slides included in the instructor files.

- In-class student exercises These are exercises that students complete in class using the principles presented in the lecture.
- AutoCAD Video Tutorials The author recorded videos showing you how to complete every AutoCAD lesson in the book. The author not only shows you how to complete the lessons, but also provides valuable insight and helpful tips on using AutoCAD along the way.
- Video Exercises These exercises are found in the text and correspond to videos

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found in the independent learning material. In the videos the author shows how to complete the exercise as well as other possible solutions and common mistakes to avoid.

- Interactive Exercises

These exercises are found in the independent learning material and allow students to test what they've learned and instantly see the results.

- End of chapter problems

These problems allow students to apply the principles presented in the book. All exercises are on perforated pages that can be handed in as assignments.

- Review Questions

The review questions are meant to encourage students to recall and consider the content found in the text by having

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them formulate descriptive answers to these questions. •

Crossword Puzzles Each chapter features a short crossword puzzle that emphasizes important terms, phrases, concepts, and symbols found in the text.

Packed with vivid illustrations and a complete set of commercial prints, best-selling **BLUEPRINTS AND PLANS FOR HVAC**, 4th Edition combines in-depth instruction with relevant hands-on applications to equip you with the skills to succeed in the workplace. Now in an engaging four-color format, this popular text will help you master the basics of blueprint reading and apply these new skills in the HVAC trade. This Fourth

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Edition has been updated to include the latest codes and technological advancements, while still covering all the critical areas of study, including using the architect's and engineer's scale, creating and using working and construction drawings and freehand sketching and drafting with instruments. In addition, the new CourseMate solution includes extra activities and CAD files to increase the number of real-world exercises. Practical, current and exceedingly accurate, BLUEPRINTS AND PLANS FOR HVAC, 4th Edition will serve you in the classroom and beyond. Important Notice: Media content referenced within the product description or

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the product text may not be available in the ebook version.

Principles and Practices An Integrated Approach to Engineering Graphics and AutoCAD 2019 combines an introduction to AutoCAD 2019 with a comprehensive coverage of engineering graphics principles. By adopting this textbook, you will no longer need to adopt separate CAD and engineering graphics books for your course. 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 tutorial exercises in this text have been expanded to cover the performance tasks found on the

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AutoCAD 2019 Certified User Examination. The primary goal of Principles and Practices An Integrated Approach to Engineering Graphics and AutoCAD 2019 is to introduce the aspects of engineering graphics with the use of modern Computer Aided Design/Drafting software - AutoCAD 2019. This text is intended to be used as a training guide for students and professionals. The chapters in the 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

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front of the book and in each chapter show where these performance tasks are covered. Engineering Graphics Essentials Principles and Practice An Integrated Approach to Engineering Graphics and AutoCAD 2023

The Effect of Using Supplemental Sketching Exercises on Ability to Visualize Orthographic Projection Drawings in Graphic Communications An Integrated Approach Engineering Graphics Essentials with AutoCAD 2013 Instruction gives students a basic understanding of how to create and read engineering drawings by presenting

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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

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SolidWorks 2014 and Engineering Graphics: An Integrated Approach combines an introduction to SolidWorks 2014 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

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Engineering Graphics Essentials
with AutoCAD 2015 Instruction
Autodesk Inventor 2022 and
Engineering Graphics
Graded Exercises in Engineering
Drawing
Engineering Graphics Essentials

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with AutoCAD 2016 Instruction

Principles and Practice An

Integrated Approach to Engineering

Graphics and AutoCAD 2017

Engineering Graphics Essentials

Fourth Edition gives students a

basic understanding of how to

create and read engineering

drawings by presenting principles

in a logical and easy to

understand manner. It covers the

main topics of engineering

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*exercises Video examples
Supplemental problem solutions
Engineering Graphics Essentials
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understanding of how to create
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types that are designed to give
students a superior
understanding of engineering
graphics and encourages greater
interaction during lectures. The*

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independent learning material allows students to explore the topics in the book on their own and at their own pace. The main content of the independent learning material contains pages that summarize the topics covered in the book. Each page has audio recordings that simulate a lecture environment. Interactive exercises are included and allow students to go through the instructor-led and in-class student exercises found in the book on their own. Also included are videos that walk students through examples and show them exactly how and why each step is performed.

*Principles and Practices: An
Integrated Approach to
Engineering Graphics and*

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AutoCAD 2015 combines an introduction to AutoCAD 2015 with a comprehensive coverage of engineering graphics principles. By adopting this textbook, you will no longer need to adopt separate CAD and engineering graphics books for your course. 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 tutorial exercises in this text have been expanded to cover the performance tasks found on the AutoCAD 2015 Certified User Examination. The primary goal of Principles and Practices: An Integrated Approach to Engineering Graphics and AutoCAD 2015 is to introduce the

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Blueprints and Plans for HVAC Principles and Practice, An Integrated Approach to Engineering Graphics and Autocad 2014

Solidworks 2013 and Engineering Graphics

Principles and Practice An Integrated Approach to Engineering Graphics and AutoCAD 2018

Engineering Graphics Essentials Fifth Edition

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SOLIDWORKS 2020 and Engineering Graphics: An Integrated Approach combines an introduction to SOLIDWORKS 2020 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 2020 and Engineering Graphics: An Integrated Approach is to introduce the aspects of Engineering

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- Teaches you the principles of both engineering graphics and Autodesk Inventor 2022
- Uses step by step tutorials that cover the most common features of Autodesk Inventor
- Includes a chapter on stress analysis
- Prepares you for the Autodesk Inventor Certified User Exam Autodesk Inventor 2022 and Engineering Graphics: An Integrated Approach will teach you the principles of engineering graphics while instructing you on how to use the powerful 3D modeling capabilities of Autodesk Inventor 2022. Using step-by-step tutorials, this text will teach you how to create and read engineering drawings while becoming proficient at using the most common features of Autodesk Inventor. By the end of the book you will be fully

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SOLIDWORKS 2020 and Engineering

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Graphics

SolidWorks 2014 and Engineering
Graphics - An Integrated Approach

Autodesk Inventor 2014 and
Engineering Graphics

Principles and Practice: An Integrated
Approach to Engineering Graphics and
AutoCAD 2015

SOLIDWORKS 2022 and Engineering
Graphics

Engineering Graphics

EssentialsText and Independent
Learning DvdSDC Publications

Principles and Practices An
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Series I. Orthographic Projection
Basic Blueprint Reading
Engineering Graphics Essentials
with AutoCAD 2023 Instruction
SOLIDWORKS 2021 and
Engineering Graphics
Text and Video Instruction

Technical Drawing 101 covers topics ranging from the most basic, such as making freehand, multiview sketches of machine parts, to the advanced—creating an AutoCAD dimension style containing the style settings defined by the ASME Y14.5-2009 Dimensioning and Tolerancing standard. But unlike the massive technical drawing reference

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texts on the market, **Technical Drawing 101** aims to present just the right mix of information and projects that can be reasonably covered by faculty, and assimilated by students, in one semester. Both mechanical and architectural projects are introduced to capture the interest of more students and to offer a broader appeal. The authors have also created extensive video training (137 videos, 18.5 hours total) that is included with every copy of the book. In these videos the authors start off by getting students comfortable with the user interface and demonstrating how to use many of AutoCAD's commands and features. The videos progress to more advanced topics where the authors walk students through completing several of the projects in the book. The CAD portion of the text incorporates drafting theory whenever possible and covers the

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basics of drawing setup (units, limits, and layers), the tools of the Draw, Modify, and Dimension toolbars, and the fundamentals of 3D modeling. By focusing on the fundamental building blocks of CAD, **Technical Drawing 101** provides a solid foundation for students going on to learn advanced CAD concepts and techniques (paper space, viewports, xrefs, annotative scaling, etc.) in intermediate CAD courses. In recognition of the diverse career interests of our students, **Technical Drawing 101** includes projects in which students create working drawings for a mechanical assembly as well as for an architectural project. We include architectural drawing because our experience has shown that many (if not most) first-semester drafting students are interested in careers in the architectural design field, and that a

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traditional technical drawing text, which focuses solely on mechanical drawing projects, holds little interest for these students. The multidisciplinary approach of this text and its supporting materials are intended to broaden the appeal of the curriculum and increase student interest and, it is hoped, future enrollments.

The book is designed as a learning tool to help the aspiring engineer learn the language of engineering graphics. In this regard, this book is hardly unique, as there have been literally hundreds of books published in the past that had a similar goal. The main challenge faced by engineering graphics books comes from the difficulty of representing and describing three dimensional information on paper, which is a consequence of the two dimensional nature of printed materials. What

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makes this book invaluable is the use of Augmented Reality, a technology that will allow you to escape the limitations of traditional materials enabling you, the student, to truly visualize the objects being described in full 3D. To take full advantage of this book you will need a smartphone, tablet or computer with a web camera, along with the software or apps provided*. Many parts of the book are linked to specific augmented reality content through a series of black and white markers that have been seamlessly integrated throughout the pages. In order to experience the content, your device's camera must be pointed at these markers. The main marker, available at the beginning of the book, is used to interact with the augmented reality models, which will be rendered in real time in your device's screen. * If you do not have an iOS

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device, Android device or a computer with a webcam, SolidWorks files of the models used throughout the book are included on the CD. In addition, STL files have been provided so the models can be opened using your solid modeling CAD package of choice or printed using a 3D printer.

SOLIDWORKS 2019 and Engineering Graphics: An Integrated Approach combines an introduction to **SOLIDWORKS 2019** 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

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Basic Engineering Technology covers various topics related to engineering, from safety procedures and movement of loads to measurement and dimensional control. Marking out, workholding, and toolholding are also discussed, along with joining, assembly, and dismantling. The interpretation of technical drawings, specifications, and data is considered as well. Comprised of 10 chapters, this book begins with a

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historical overview of the development of the engineering industry, followed by a discussion on the academic qualifications and training of the various categories of technical personnel employed in the industry. The reader is then introduced to safe practices observed in the engineering industry, with emphasis on health and safety legislation, causes of accidents, and accident prevention. Subsequent chapters focus on safety considerations in the movement of loads; measurement and control of dimensional properties; advantages and disadvantages of marking out; workholding and toolholding applications; and assembly and dismantling. This monograph is intended for undergraduate students and those enrolled in training centers and in industrial apprentice training schemes.

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**Engineering Graphics Essentials with
AutoCAD 2013 Instruction
Orthographic projection
Basic Engineering Technology
SOLIDWORKS 2016 and Engineering
Graphics
SOLIDWORKS 2017 and Engineering
Graphics**

SolidWorks 2013 and Engineering Graphics: An Integrated Approach combines an introduction to SolidWorks 2013 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

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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 2013 and Engineering Graphics: An Integrated Approach is to introduce the aspects of Engineering Graphics with the use of modern Computer Aided Design package – SolidWorks 2013. 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

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concepts of Engineering Graphics, as well as in-depth discussions of parametric feature-based CAD techniques. This textbook contains a series of fifteen chapters, with detailed step-by-step tutorial style lessons, designed to introduce beginning CAD users to the graphic language used in all branches of technical industry. This book does not attempt to cover all of SolidWorks 2013'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.

Principles and Practices: An Integrated Approach to Engineering Graphics and AutoCAD 2014

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combines an introduction to AutoCAD 2014 with a comprehensive coverage of engineering graphics principles. By adopting this textbook, you will no longer need to adopt separate CAD and engineering graphics books for your course. 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 tutorial exercises in this text have been expanded to cover the performance tasks found on the AutoCAD 2014 Certified User Examination. The primary goal of Principles and Practices: An Integrated Approach to Engineering Graphics and AutoCAD 2014 is to introduce the aspects of engineering

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graphics with the use of modern Computer Aided Design/Drafting software - AutoCAD 2014. This text is intended to be used as a training guide for students and professionals. The chapters in the 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 CAD techniques. This textbook contains a series of twelve chapters, with detailed step-by-step tutorial-style lessons designed to introduce beginning CAD users to the graphic language used in all branches of technical industry. The

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CAD techniques and concepts discussed in the text are also designed to serve as the foundation to the more advanced parametric feature-based CAD packages, such as Autodesk Inventor.

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Autodesk Inventor 2014 and Engineering Graphics: An Integrated Approach will teach you

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the principles of engineering graphics while instructing you on how to use the powerful 3D modeling capabilities of Autodesk Inventor 2014. Using step by step tutorials, this text will teach you how to create and read engineering drawings while becoming proficient at using the most common features of Autodesk Inventor. By the end you will be fully prepared to take and pass the Autodesk Inventor Certified User Exam. 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,

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The content of this book covers the performance tasks that have been identified by Autodesk as being included on the Autodesk Inventor 2014 Certified User examination. Special reference guides show students where the performance tasks are covered in the book. If you are teaching an introductory level Autodesk Inventor course and you want to prepare your students for the Autodesk Inventor 2014 Certified User Examination this is the only book that you need. If your students are not interested in the Autodesk Inventor 2014 Certified User Exam they will still be studying the most important tools and techniques of Autodesk Inventor as identified by Autodesk. For detailed

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Information on the Autodesk
Inventor Certified User examination
visit

www.autodesk.com/certification.

Principles and Practice An
Integrated Approach to Engineering
Graphics and AutoCAD 2022

SOLIDWORKS 2019 and
Engineering Graphics

Principles and Practice An
Integrated Approach to Engineering
Graphics and AutoCAD 2016

Engineering Graphics Essentials
with AutoCAD 2014 Instruction

Text and Independent Learning Dvd
Engineering Graphics

Essentials with AutoCAD
2012 Instruction gives

students a basic
understanding of how to

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create and read engineering drawings by presenting principles in a logical and easy to understand manner. It covers the main topics of engineering graphics, including tolerancing and fasteners while also teaching them the fundamentals of AutoCAD 2012. This book features an independent learning CD containing supplemental content to further reinforce these principles. Through its many different exercises this text is designed to encourage students to

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interact with the instructor during lectures, and it will give students a superior understanding of engineering graphics and AutoCAD. The enclosed independent learning CD allows the learner to go through the topics of the book independently. The main content of the CD contains pages that summarize the topics covered in the book. Each page has voice over content that simulates a lecture environment. There are also interactive examples that allow the

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learner to go through the instructor led and in-class student exercises found in the book on their own. Video examples are also included to

supplement the learning process. Each chapter contains these types of exercises: Instructor led in-class exercises

Students complete these exercises in class using information presented by the instructor using the PowerPoint slides on the instructor CD. In-class

student exercises These are exercises that students complete in class

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using the principles presented in the lecture.

Video Exercises These exercises are found in the text and correspond to videos found on the CD. In the videos the author shows how to complete the exercise as well as other possible solutions and common mistakes to avoid.

Interactive Exercises These exercises are found on the CD and allow students to test what they've learned and instantly see the results.

End of chapter problems These problems allow students to apply the

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principles presented in the book. All exercises are on perforated pages that can be handed in as assignments. Review Questions The review questions are meant to encourage students to recall and consider the content found in the text by having them formulate descriptive answers to these questions. Crossword Puzzles Each chapter features a short crossword puzzle that emphasizes important terms, phrases, concepts, and symbols found in the text.

SOLIDWORKS 2018 and

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Engineering Graphics: An Integrated Approach combines an introduction to SOLIDWORKS 2018 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

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Engineering Graphics Essentials with AutoCAD 2015 Instruction gives students a basic understanding of how to create and read engineering drawings by presenting principles in a logical and easy to understand manner. It covers the main topics of

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adopt separate CAD and
engineering graphics books
for your course. Not only
will this unified approach
give your course a
smoother flow, your
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What's more, the tutorial exercises in this text have been expanded to cover the performance tasks found on the AutoCAD 2018 Certified User Examination. The primary goal of Principles and Practices An Integrated Approach to Engineering Graphics and AutoCAD 2018 is to introduce the aspects of engineering graphics with the use of modern Computer Aided Design/Drafting software - AutoCAD 2018. This text is intended to be used as a training guide for students and

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2011 Instruction

SOLIDWORKS 2015 and
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AutoCAD 2021

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to AutoCAD 2022 with a*

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