

Circle Templates For Planets PDF

Circle Templates for Planets: The Ultimate Guide for Artists, Educators, and Space Enthusiasts

When it comes to illustrating the celestial wonders of our universe, one of the most fundamental tools is a reliable circle template for planets. Whether you're creating educational posters, space-themed crafts, or detailed astronomical drawings, circle templates for planets are essential for achieving precise, consistent, and visually appealing representations of the planets in our solar system and beyond. This article explores everything you need to know about circle templates for planets, including their types, uses, benefits, and tips for selecting the right one for your needs.

What Are Circle Templates for Planets?

Circle templates for planets are physical stencils or drawing tools designed to help users draw perfect circles of various sizes. These templates often feature multiple concentric circles or cutouts that facilitate drawing planets with accurate proportions and smooth edges, making them invaluable for artists, educators, students, and space enthusiasts.

Types of Circle Templates for Planets

There are several types of circle templates available, each suited for different purposes and preferences. Understanding the differences can help you choose the right tool for your project.

1. Standard Plastic Circle Templates

- Made from durable plastic, these templates typically feature numerous circles of varying diameters.
- Ideal for classroom use, art projects, and quick sketches.
- Often include measurements to help with scaling and proportioning.

2. Transparent Ruler Circles

- Clear plastic or acrylic rulers with embedded circle cutouts.
- Allow for easy positioning and layering with other drawing tools.
- Great for detailed and precise drawings where overlaying is necessary.

3. Digital Circle Templates and Software Tools

- Digital versions in graphic design or drawing software such as Adobe Illustrator, CorelDRAW, or free tools like Inkscape.
- Provide adjustable, scalable circles with high precision.
- Perfect for creating detailed astronomical illustrations or educational materials for print and digital media.

4. Custom or DIY Circle Templates

- Handmade templates crafted from cardboard, plastic, or metal.
- Can be customized to specific sizes or shapes needed for unique projects.
- Cost-effective and customizable options for hobbyists and educators.

Uses of Circle Templates for Planets

Circle templates serve a wide range of applications, from educational to artistic, ensuring that your planetary illustrations are accurate and visually appealing.

1. Educational Illustrations and Charts

- Creating accurate diagrams of the solar system for classrooms or science exhibits.
- Helping students understand the relative sizes and positions of planets.
- Designing engaging visual aids for astronomy lessons.

2. Artistic and Creative Projects

- Designing space-themed artwork, posters, and digital illustrations.
- Making planetary models or crafts for school projects or exhibitions.
- Creating stylized representations or abstract interpretations of planets.

3. Planetary Visualization for Media

- Developing graphics for websites, presentations, or educational videos.
- Illustrating fictional planets for science fiction or game design.
- Enhancing visual storytelling with accurate and appealing planetary images.

Benefits of Using Circle Templates for Planets

Employing circle templates offers several advantages that improve the quality and efficiency of your planetary illustrations.

1. Precision and Consistency

- Ensures perfect circles every time, eliminating uneven edges or inaccuracies.
- Maintains consistent sizes across multiple planets or illustrations.

2. Time-Saving Tool

- Speeds up the drawing process, especially when multiple circles are needed.
- Reduces frustration associated with freehand drawing of perfect circles.

3. Professional Quality Results

- Creates clean, sharp outlines that enhance the visual appeal of your work.
- Helps produce polished presentations, posters, or digital images.

4. Educational Clarity

- Facilitates accurate scaling and proportioning for teaching purposes.
- Helps students grasp the concept of planetary sizes and distances.

How to Choose the Right Circle Template for Planets

Selecting the appropriate circle template depends on your specific needs, skill level, and project scope. Here are some factors to consider:

Size Range and Variety

- Determine the diameters of the planets you wish to draw. For example, Mercury's diameter is about 4,880 km, while Jupiter's is approximately 139,820 km.
- Choose a template that includes circles close to these sizes or allows for scaling in digital formats.

Material and Durability

- Plastic templates are durable and suitable for regular use.
- Cardboard or DIY templates are more affordable but less durable.
- Consider transparent materials for overlaying with other drawing tools.

Precision and Ease of Use

- Look for templates with clear markings and smooth edges.
- Ease of handling and portability can enhance your drawing experience.

Compatibility with Digital Tools

- If you prefer digital illustration, explore software templates or vector graphics that can be scaled infinitely.
- Some physical templates can be digitized for use in digital art programs.

Tips for Using Circle Templates for Planets Effectively

Maximize the benefits of your circle templates with these practical tips:

1. Secure Your Template

- Use masking tape or adhesive to prevent slipping during drawing.
- Ensure stability for clean, accurate circles.

2. Use Appropriate Drawing Tools

- Pair templates with fine-tipped pens or pencils for crisp lines.
- For digital work, utilize shape tools within your software for perfect circles.

3. Practice Scaling and Proportion

- When drawing multiple planets, scale their sizes proportionally for accuracy.
- Use measurements or digital scaling tools to maintain consistency.

4. Combine with Textures and Colors

- Add surface details, shading, or textures to make your planetary illustrations more realistic.
- Use coloring techniques to differentiate planets and highlight features.

Conclusion: Elevate Your Space Art with the Right Circle Templates

Whether you're an educator aiming to teach students about the solar system, an artist creating stunning space-themed artwork, or a hobbyist exploring planetary illustrations, the right circle template for planets can significantly enhance your work. By choosing the appropriate type—be it physical or digital—and understanding how to utilize it effectively, you can produce precise, professional-looking representations of planets that captivate and educate.

Investing in quality circle templates and mastering their use not only saves time but also elevates the quality of your planetary illustrations. With a wide array of options available, from durable plastic stencils to versatile digital tools, you have everything you need to bring the wonders of our universe to life on your canvas or screen.

Start exploring the perfect circle template for your next planetary project today and take your space art to new heights!

Circle templates for planets have become essential tools in various fields—from astronomy education and scientific research to art, design, and even planetary visualization in digital and physical media. These templates serve as precise, reliable guides for drawing, analyzing, and understanding planetary bodies, facilitating both casual exploration and rigorous scientific inquiry. Their significance extends beyond mere convenience, touching upon the core of how we interpret and represent celestial objects in both academic and creative contexts.

This article delves into the multifaceted world of circle templates for planets, exploring their design, applications, advantages, limitations, and future prospects. By providing an in-depth analysis, we aim to offer a comprehensive understanding of why these seemingly simple tools are pivotal in planetary studies and beyond.

Understanding Circle Templates for Planets

What Are Circle Templates?

Circle templates are physical or digital tools designed to assist users in drawing perfect circles of various sizes. They typically consist of a plastic or metal sheet with multiple concentric and eccentric circles cut into it, or a digital equivalent embedded within drawing software. When it comes to planetary representations, these templates are calibrated to match the approximate sizes and proportions of planets within a given scale or context.

In the context of planetary science and illustration, circle templates serve two primary purposes:

- Precision: Ensuring accurate, consistent circles that represent planetary disks.
- Efficiency: Saving time during drawing or modeling processes, especially when multiple planetary bodies are involved.

Why Use Circle Templates for Planets?

The main reasons for employing circle templates include:

- Accuracy: Achieving precise proportions and sizes, crucial when comparing planetary bodies.
- Consistency: Maintaining uniformity across illustrations, educational materials, or scientific diagrams.
- Speed: Rapidly generating visual representations without freehand inaccuracies.
- Educational Clarity: Helping students and educators visualize planetary sizes and their relative scale effectively.

Design and Types of Circle Templates for Planets

Physical Circle Templates

Physical templates are typically made from transparent plastic or metal with cutouts of different diameters. They are portable, durable, and easy to use with traditional drawing tools like pencils, pens, or markers.

Features:

- Multiple concentric circles, often labeled with diameters in inches or millimeters.
- Eccentric circles for depicting planetary orbits or different viewing angles.
- Sometimes include additional shapes or markings for specific features such as planetary rings or moons.

Advantages:

- Tactile and straightforward to handle.
- No need for digital setup or software skills.
- Good for classroom settings and quick sketches.

Limitations:

- Limited to fixed sizes; resizing requires multiple templates.
- Less flexibility for custom planet sizes or scale adjustments.

Digital Circle Templates

Digital templates are integrated into graphic design or astronomy software, such as Adobe Illustrator, Stellarium, or specialized planetarium apps.

Features:

- Adjustable circle sizes with precision control.
- Ability to overlay multiple planetary disks for comparative analysis.
- Integration with other visualization tools like star charts or orbital paths.

Advantages:

- Highly customizable and scalable.
- Easy to modify for different scales or projections.
- Facilitates complex visualizations involving multiple celestial bodies.

Limitations:

- Requires familiarity with digital tools.
- Dependence on hardware and software compatibility.

Specialized Templates for Different Applications

Depending on the use case, templates may be designed with specific features:

- Educational Templates: Simplified, color-coded circles matching planetary colors.
- Scientific Templates: Precisely scaled circles based on planetary diameters or observational data.
- Artistic Templates: Stylized or exaggerated representations for visual impact.

Applications of Circle Templates in Planetary Contexts

Educational and Outreach Uses

In classrooms and planetarium shows, circle templates are invaluable for teaching planetary sizes and distances. They help students grasp the relative scale of planets in our Solar System, which is often challenging due to the vast size differences.

Examples:

- Creating scaled models of planetary disks for visual comparison.
- Demonstrating the concept of planetary orbits and size ratios.
- Simplifying complex planetary data into accessible visual formats.

Scientific Research and Data Visualization

Researchers utilize circle templates for plotting planetary disks in observational data, such as telescope imagery or spacecraft images. When analyzing planetary features, size comparisons, or atmospheric phenomena, accurate representation is key.

Examples:

- Overlaying disk templates on images to estimate planetary diameters.
- Visualizing transit events where planets pass in front of stars.
- Comparing observed data against theoretical models.

Art and Design

Artists and designers incorporate circle templates to craft planetary illustrations, animations, or conceptual art. These tools ensure visual harmony and proportional accuracy, enriching creative projects with scientific authenticity.

Examples:

- Designing posters or educational infographics.
- Creating digital animations of planetary systems.
- Crafting physical models or sculptures.

Planetary Visualization in Digital Media

Digital templates facilitate the creation of immersive, interactive visualizations for virtual reality, gaming, or online platforms. They enable precise scaling and dynamic adjustments, enhancing user experience and educational value.

Advantages of Using Circle Templates for Planetary Work

- **Consistency and Precision:** Ensures that each planetary disk is accurately proportioned, which is critical in scientific contexts.
- **Time Efficiency:** Accelerates the process of creating visual representations, especially when multiple planets are involved.
- **Educational Effectiveness:** Helps learners intuitively grasp size differences and spatial relationships.
- **Versatility:** Applicable across mediums?physical sketches, digital renderings, presentations, and models.
- **Cost-Effectiveness:** Physical templates are inexpensive and durable; digital templates can be embedded into various software.

Limitations and Challenges

While circle templates are powerful tools, they are not without drawbacks:

- **Limited Flexibility:** Physical templates are constrained by their fixed sizes; scaling up or down can require multiple templates.
- **Potential for Inaccuracy:** Poor handling or manufacturing defects can lead to inaccuracies.
- **Dependence on Scale:** Accurate planetary representation depends on choosing appropriate scales, which can be complex given the vast size disparities.
- **Over-simplification:** Relying solely on circles may overlook other planetary features like topography, atmospheres, or rings.

Future Perspectives and Innovations

The evolution of circle templates for planets is closely tied to technological advancements:

- **3D Printing:** Customizable, precise physical templates tailored to specific projects or educational levels.
- **Augmented Reality (AR):** Overlaying virtual templates onto real-world scenes for interactive

learning and visualization.

- AI and Machine Learning: Generating dynamic, scaled templates based on real-time data or user input.
- Integration with Data Analytics: Linking templates directly with planetary data sets for real-time comparison and analysis.

These innovations promise to enhance the accuracy, accessibility, and educational impact of planetary representations, making the humble circle template an even more vital tool in planetary sciences and outreach.

Conclusion

Circle templates for planets exemplify the enduring value of simple yet effective tools in the complex realm of planetary visualization. Whether physical or digital, these templates bridge the gap between abstract data and tangible understanding, empowering educators, scientists, artists, and enthusiasts alike. As technology advances, their form and function will continue to evolve, but their core purpose—to accurately and efficiently represent planetary bodies—remains unchanged. In an era where visual literacy is increasingly vital, circle templates stand as timeless instruments fostering clarity, precision, and curiosity about our universe.

Question What are circle templates for planets used for in astronomy and education?
Answer Circle templates for planets are used to accurately draw and visualize the sizes and positions of planets in educational models, astronomy projects, and space-related crafts, helping students and enthusiasts understand planetary scales and orbits. Where can I find high-quality circle templates for planets online? You can find high-quality circle templates for planets on educational websites, astronomy supply stores, and digital design platforms like Etsy, Amazon, and specialized astronomy resources that offer printable or physical templates. How do I choose the right size of circle template for different planets? Choose the size based on the relative scale you want to represent; for example, larger templates for planets like Jupiter and smaller ones for Mercury, ensuring the proportions reflect actual planetary sizes for accurate models. Can circle templates for planets be customized for specific projects? Yes, many printable templates can be customized using graphic design software to adjust sizes or add labels, making them versatile for various educational and creative projects. Are there digital tools that offer customizable circle templates for planets? Yes, digital tools like Adobe Illustrator, Canva, and planetarium software provide customizable circle templates that can be scaled, labeled, and integrated into presentations or educational materials. What materials are recommended for physical circle templates for planets? Heavy paper, cardstock, or plastic sheets are recommended for durable physical templates, especially if used frequently for classroom activities or model-building projects.

Related keywords: planet drawing templates, space circle stencils, solar system templates, planetary outlines, astronomy drawing tools, orbit circle guides, celestial body templates, planet

shape stencils, space-themed drawing aids, planetary diagram templates

Geometry review sheet circle vocabulary central and

geometry review sheet circle vocabulary central and understanding the fundamental concepts and vocabulary related to circles is essential for mastering geometry. Circles are one of the most intriguing shapes in mathematics, characterized by their perfect symmetry and unique properties. Whether you're a student preparing for an exam, a teacher designing lesson plans, or a math enthusiast looking to deepen your knowledge, a solid grasp of circle-related vocabulary is crucial. This review sheet aims to clarify key terms and concepts associated with circles, focusing on the central ideas and their applications in geometry.

Fundamental Circle Vocabulary

Understanding the basic vocabulary related to circles forms the foundation for more advanced topics. Here are some of the most important terms to know:

Circle

A circle is a set of all points in a plane that are equidistant from a fixed point called the center. The distance from the center to any point on the circle is called the radius.

Center

The fixed point inside the circle from which all points on the circle are equally distant. The center is often labeled as O.

Radius

A line segment connecting the center of the circle to any point on the circle. All radii in a circle are equal in length.

Diameter

A line segment passing through the center and connecting two points on the circle. It is twice as long as the radius: $D = 2r$.

Chord

A line segment with both endpoints on the circle. A diameter is a special type of chord.

Arc

A portion of the circumference of a circle. Arcs are named by their endpoints, for example, AB.

Sector

A region bounded by two radii and an arc, resembling a "slice" of the circle.

Segment

A region bounded by a chord and the corresponding arc.

Circumference

The distance around the circle. It can be calculated using the formula: $C = 2\pi r$ or $C = \pi d$.

Key Properties and Relationships

Understanding the properties and relationships between the various parts of a circle allows for problem-solving and geometric proofs.

Central and Inscribed Angles

- Central Angle: An angle whose vertex is at the center of the circle and whose sides intersect the circle. The measure of a central angle is equal to the measure of its intercepted arc.
- Inscribed Angle: An angle whose vertex is on the circle and whose sides intersect the circle. The measure of an inscribed angle is half the measure of its intercepted arc.

Arc Measures

- The measure of an arc is proportional to the central angle that intercepts it.
- For a full circle, the sum of the measures of all arcs equals 360° .

Relationship Between Chords, Secants, and Tangents

- Chord: A segment with both endpoints on the circle.

- Secant: A line that intersects the circle at two points.
- Tangent: A line that touches the circle at exactly one point, called the point of tangency.

Special Lines in Circles

Certain lines have specific properties that are vital in circle geometry.

Tangent Line

A line that touches the circle at exactly one point. The tangent is perpendicular to the radius drawn to the point of tangency.

Secant Line

A line that intersects the circle at two points, creating intersecting chords or segments.

Chord and Diameter Relationships

- The diameter bisects chords that are perpendicular to it.
- The longest chord in a circle is the diameter.

Important Theorems and Formulas

Familiarity with key theorems helps in solving complex problems involving circles.

Thales' Theorem

If A, B, and C are points on a circle where AC is a diameter, then the angle ABC is a right angle.

Chord Distance Formula

The perpendicular distance from the center to a chord can be found using:

$$d = \sqrt{r^2 - \left(\frac{c}{2}\right)^2}$$

where d is the distance from the center, r is the radius, and c is the length of the chord.

Area of a Sector

The area of a sector with central angle θ (in degrees) is:

$$\text{Area} = \frac{\theta}{360^\circ} \times \pi r^2$$

Arc Length Formula

The length of an arc with central angle θ is:

$$\text{Arc Length} = \frac{\theta}{360^\circ} \times 2\pi r$$

Applications and Problem-Solving Strategies

Applying these vocabulary terms and properties allows for effective problem-solving in various contexts.

Identifying Key Components

When presented with a circle problem, first identify:

- The center
- The radii
- Any chords, secants, or tangents
- The angles involved

Using Theorems to Find Unknowns

Apply theorems such as:

- Central and inscribed angle relationships
- Thales' theorem
- Properties of tangents and radii

Calculating Lengths and Areas

Use the relevant formulas for circumference, area of sectors, and arc lengths based on given measurements.

Practice Problems for Reinforcement

To solidify understanding, here are some practice problems:

- Find the length of an arc if the central angle measures 60° in a circle with radius 10 units.
- Given a circle with diameter 14 cm, find the circumference and the area.
- In a circle, if an inscribed angle intercepts an arc of 80° , what is the measure of the inscribed angle?
- Determine the length of a chord if the distance from the center to the chord is 5 units, and the radius of the circle is 13 units.
- Prove that the tangent to a circle is perpendicular to the radius at the point of tangency.

Conclusion

Mastering the vocabulary associated with circles is a vital step in understanding and solving geometry problems. From basic components like the radius and diameter to more complex concepts like central and inscribed angles, a comprehensive grasp of these terms provides clarity and confidence. Regular practice, coupled with an understanding of the key theorems and formulas, will enhance your ability to analyze and solve a wide array of circle-related problems. Remember, the beauty of circle geometry lies in its symmetry and the elegant relationships between its parts?knowing the vocabulary unlocks the door to appreciating its full mathematical elegance.

Geometry Review Sheet Circle Vocabulary Central and

Understanding the fundamental vocabulary related to circles is essential for mastering geometry concepts. The terms surrounding circles?such as radii, diameters, chords, tangents, sectors, and arcs?form the building blocks of more complex geometric reasoning. In this review, we will explore the key vocabulary associated with circles, with a focus on the central concepts that underpin circle geometry, providing clarity and insight into their definitions, properties, and interrelationships.

Introduction to Circle Geometry Vocabulary

Circles are one of the most fundamental shapes in geometry, characterized by a set of points equidistant from a fixed point called the center. To describe and analyze circles effectively, mathematicians have developed a precise vocabulary. These terms help describe the relationships between different parts of a circle and are vital for solving problems related to area, circumference, angles, and more.

Key Terms and Definitions

Understanding the vocabulary associated with circles begins with familiarizing oneself with the core components. Here are the most essential terms:

Center

- The fixed point inside a circle from which every point on the circle is equidistant.
- Denoted as point O or C in diagrams.

Radius

- A segment drawn from the center of the circle to any point on the circle.
- All radii in a circle are equal in length.
- Commonly denoted as r .

Diameter

- A chord that passes through the center of the circle.
- The longest chord in the circle.
- Equals twice the radius ($d = 2r$).
- Denoted as d .

Chord

- A segment with both endpoints on the circle.
- Does not necessarily pass through the center.
- Examples include minor and major chords, depending on their length relative to the circle.

Secant

- A line that intersects the circle at two points.
- Extends infinitely in both directions.

Tangent

- A line that touches the circle at exactly one point.
- The point of contact is called the point of tangency.

Arc

- A portion of the circle's circumference.

- Defined by two endpoints on the circle.
- Can be classified as a minor arc (less than 180°) or a major arc (more than 180°).

Central Angle

- An angle whose vertex is at the center of the circle, with sides intersecting the circle.
- Measures the degree of the arc it intercepts.

Inscribed Angle

- An angle with its vertex on the circle and sides intersecting the circle.
- The intercepted arc is opposite the angle.

Sector

- A "slice" of the circle, formed by two radii and the connecting arc.
- Similar to a wedge-shaped region.

Segment

- A region bounded by a chord and the arc it subtends.
- Can be thought of as a "slice" of the circle, excluding the central angle.

Deep Dive into Circle Vocabulary: Properties and Relationships

Understanding how these components relate is crucial for geometric proofs and problem-solving.

The Relationship between Radius, Diameter, and Circumference

- The radius (r) is fundamental; all radii are equal.
- The diameter (d) is twice the radius: $d = 2r$.
- The circumference (C) of a circle is calculated as $C = 2\pi r$, or πd .

Chords and Their Properties

- Perpendicular bisectors: The perpendicular bisector of a chord passes through the circle's center.
- Equal chords: Chords equidistant from the center are equal in length.
- Longest chord: The diameter is the longest chord.

Angles in Circles

- Central angles: Measure the intercepted arc directly; an angle at the center.
- Inscribed angles: Measure half the intercepted arc; important in proving circle theorems.
- Angles formed by tangents and chords: The measure of such an angle equals half the measure of the intercepted arc.

Arcs and Their Measures

- The measure of a minor arc equals the measure of its central angle.
- The measure of a major arc is greater than 180° .
- The measure of a semicircular arc (half the circle) is 180° .

Sectors and Segments

- The area of a sector is proportional to its central angle: $\text{Area} = \frac{\theta}{360^\circ} \times \pi r^2$.
- A segment's area can be found by subtracting the area of the triangle formed by the radii from the sector's area.

Special Lines and Their Significance

Certain lines and points are crucial for understanding circle properties.

Tangent Lines

- Touch the circle at only one point.
- Are perpendicular to the radius at the point of tangency.
- Play a key role in circle theorems, such as the tangent-chord theorem.

Secants and External Points

- When a secant line passes outside the circle, it forms two segments with the circle.
- The power of a point theorem relates secants and tangents intersecting outside the circle.

Points of Tangency and Contact

- The unique point where a tangent touches the circle.
- The basis for many angle and length theorems involving tangents.

Common Theorems and Their Vocabulary Connections

The vocabulary is often used to state and prove fundamental circle theorems:

- Theorem 1: The measure of an inscribed angle is half the measure of its intercepted arc.
- Theorem 2: Tangent line perpendicular to the radius at point of tangency.
- Theorem 3: Chords equidistant from the center are equal in length.
- Theorem 4: The angles between a tangent and a chord are equal to the inscribed angles subtended by the same arc.

Practical Applications and Problem-Solving Strategies

When approaching circle problems, correctly identifying and utilizing the vocabulary terms can streamline reasoning:

- Recognize whether a line is a tangent, secant, or chord.
- Identify central and inscribed angles and their intercepted arcs.
- Use properties of equal chords and radii to find unknown lengths.
- Apply sector and segment formulas when calculating areas.
- Leverage the relationships between angles and arcs to set up equations.

Mastering the vocabulary of circle geometry is indispensable for students and enthusiasts aiming to deepen their understanding of this fundamental shape. By internalizing terms like radius, diameter, chord, tangent, arc, sector, and their related properties, learners can unlock a wealth of geometric truths and solve complex problems with confidence. As with any mathematical domain, language shapes understanding?so developing a robust "circle vocabulary" lays a solid foundation for future explorations in geometry and beyond.

Remember: Visual diagrams are invaluable. Always accompany these terms with sketches to enhance comprehension and retention. Whether you're reviewing for a test or exploring advanced

topics, a strong grasp of circle vocabulary is your gateway to geometric mastery.

QuestionAnswer What is the definition of a circle's radius? The radius of a circle is the distance from the center of the circle to any point on its circumference. What does the term 'central angle' mean in circle geometry? A central angle is an angle whose vertex is at the center of the circle and whose sides intersect the circle at two points. How is a diameter related to the circle's radius? A diameter is twice the length of the radius; it passes through the circle's center and touches two points on the circumference. What is the meaning of 'circle vocabulary' in geometry? Circle vocabulary includes terms like radius, diameter, circumference, arc, chord, central angle, and sector, which describe different parts and properties of a circle. Why is understanding central angles important in circle geometry? Understanding central angles helps in calculating the measures of arcs, sectors, and in solving problems related to circle segments and their properties.

Related keywords: circle, radius, diameter, circumference, chord, arc, tangent, secant, central angle, vocabulary

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