

Conversion of an angle given in D°M'S'' form into decimal form and vice versa.

Example 1:

- (i). Convert $25^{\circ}30'$ to decimal degrees.
 (ii) Convert 32.25° to D°M'S'' form.

Solution:

$$(i) \quad 25^{\circ}30' = 25^{\circ} + \frac{30}{60}^{\circ} = 25^{\circ} + 0.5^{\circ} = 25.5^{\circ}$$

$$(ii) \quad 32.25^{\circ} = 32^{\circ} + 0.25^{\circ} = 32^{\circ} + \frac{25}{100}^{\circ}$$

$$= 32^{\circ} + \frac{1^{\circ}}{4} = 32^{\circ} + \frac{1}{4} \times 60'$$

$$= 32^{\circ}15'$$

Example 2:

Convert $12^{\circ}23'35''$ to decimal degrees correct to three decimal places.

Solution:

$$12^{\circ}23'35'' = 12^{\circ} + \frac{23^{\circ}}{60} + \frac{35^{\circ}}{60 \times 60}$$

$$= 12^{\circ} + \frac{23^{\circ}}{60} + \frac{35^{\circ}}{3600}$$

$$= 12^{\circ} + 0.3833^{\circ} + 0.00972^{\circ}$$

$$= 12.3930^{\circ}$$

$$= 12.393^{\circ}$$

Example 3:

Convert 45.36° to D°M'S'' form.

Solution:

$$(45.36)^{\circ}$$

$$= 45^{\circ} + (0.36)^{\circ}$$

$$= 45^{\circ} + \frac{36}{100} \times 60'$$

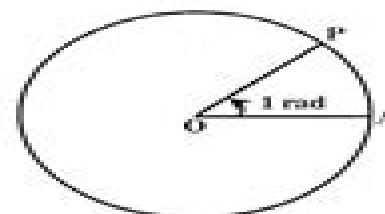
$$= 45^{\circ} + 21.6'$$

$$= 45^{\circ} + 21' + (0.6 \times 60)''$$

$$= 45^{\circ}21'36''$$

Radian measure of an angle (circular system).

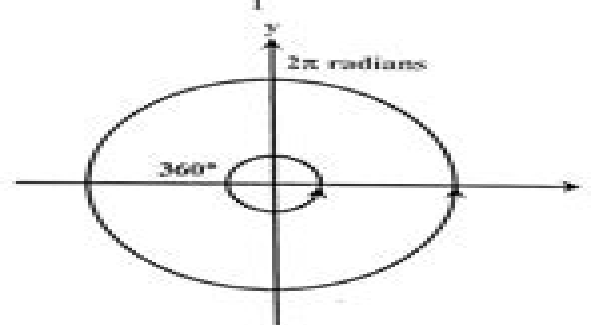
Radian: The angle subtended at the centre of the circle by an arc, whose length is equal to the radius of the circle is called one Radian.



Consider a circle of radius r whose centre is O . From any point A on the circle cut off an arc AP whose length is equal to the radius of the circle. Join O with A and O with P . The $\angle AOP$ is one radian. This means that when Length of arc AP = length of radius $\overline{OA}$ then $m\angle AOP = 1$ radian

Relationship between radians and degrees

We know that circumference of a circle is $2\pi r$ where r is the radius of the circle. Since a circle is an arc whose length is $2\pi r$. The radian measure of an angle that form a complete circle is $\frac{2\pi r}{r} = 2\pi$



From this we see that $360^{\circ} = 2\pi$ radians
 or $180^{\circ} = \pi$ radians..... (i)

Wiley Plus Answer Key Trigonometry

Daniel F McAuley



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Table of Contents Wiley Plus Answer Key Trigonometry

1. Understanding the eBook Wiley Plus Answer Key Trigonometry
 - The Rise of Digital Reading Wiley Plus Answer Key Trigonometry
 - Advantages of eBooks Over Traditional Books
2. Identifying Wiley Plus Answer Key Trigonometry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Wiley Plus Answer Key Trigonometry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Wiley Plus Answer Key Trigonometry
 - Personalized Recommendations
 - Wiley Plus Answer Key Trigonometry User Reviews and Ratings

- Wiley Plus Answer Key Trigonometry and Bestseller Lists
- 5. Accessing Wiley Plus Answer Key Trigonometry Free and Paid eBooks
 - Wiley Plus Answer Key Trigonometry Public Domain eBooks
 - Wiley Plus Answer Key Trigonometry eBook Subscription Services
 - Wiley Plus Answer Key Trigonometry Budget-Friendly Options
- 6. Navigating Wiley Plus Answer Key Trigonometry eBook Formats
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- 7. Enhancing Your Reading Experience
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 - Interactive Elements Wiley Plus Answer Key Trigonometry
- 8. Staying Engaged with Wiley Plus Answer Key Trigonometry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Wiley Plus Answer Key Trigonometry
- 9. Balancing eBooks and Physical Books Wiley Plus Answer Key Trigonometry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Wiley Plus Answer Key Trigonometry
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Wiley Plus Answer Key Trigonometry
 - Setting Reading Goals Wiley Plus Answer Key Trigonometry
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Wiley Plus Answer Key Trigonometry
 - Fact-Checking eBook Content of Wiley Plus Answer Key Trigonometry
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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