

MA2G2. Students will define and apply sine, cosine, and tangent ratios to right triangles.

3. Given the following two triangles finish the statements:

- a. $\sin A$ in the first triangle = $\cos$ **F** in the second triangle.

$$\sin A = \frac{5d}{5e} = \frac{d}{e}$$

$$\cos F = \frac{d}{e}$$

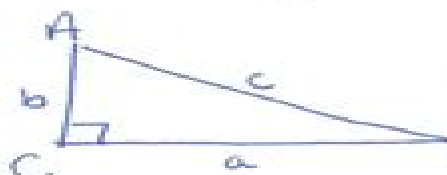
- b. $\cos D$ in the second triangle = $\sin$ **C** in the first triangle.

$$\cos D = \frac{f}{e}$$

$$\sin C = \frac{5f}{5e} = \frac{f}{e}$$



4. Given a right triangle ABC where $\angle C$ is 90° , $\sin A$ is the same as what other trig ratio(s)?



$$\begin{aligned}\sin A &= \frac{a}{c} \\ \cos A &= \frac{b}{c} \\ \tan A &= \frac{a}{b}\end{aligned}$$

$$\begin{aligned}\sin B &= \frac{b}{c} \\ \cos B &= \frac{a}{c} \\ \tan B &= \frac{b}{a}\end{aligned}$$

5. Given an isosceles right triangle ABC where $\angle C$ is 90° , $\cos B$ is the same as what other trig ratio(s)?

$$45^\circ - 45^\circ - 90^\circ$$



$$\begin{aligned}\sin A &= \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \\ \cos A &= \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \\ \tan A &= \frac{1}{1} = 1\end{aligned}$$

$$\begin{aligned}\sin B &= \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \\ \cos B &= \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \\ \tan B &= \frac{1}{1} = 1\end{aligned}$$

6. If the length of HI is 47 ft, find the perimeter of $\triangle HJK$.

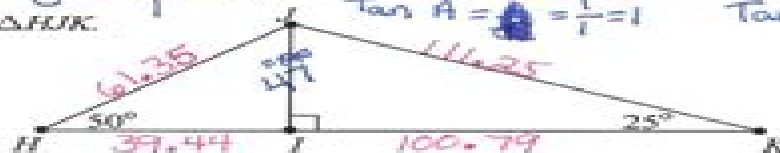
Round your answer to the nearest tenth.

$$\sin 50^\circ = \frac{47}{HJ} \rightarrow HJ = \frac{47}{\sin 50^\circ} = 61.35$$

$$\tan 50^\circ = \frac{47}{HI} \rightarrow HI = \frac{47}{\tan 50^\circ} = 39.44$$

$$\sin 25^\circ = \frac{47}{JK} \rightarrow JK = \frac{47}{\sin 25^\circ} = 111.21$$

$$\tan 25^\circ = \frac{47}{IK} \rightarrow IK = \frac{47}{\tan 25^\circ} = 100.79$$



$$61.35 + 39.44 + 111.21 + 100.79 = 312.79 \text{ ft}$$

7. In $\triangle ABC$ where $\angle C$ is 90° , if $\tan A = \frac{1}{2}$, then $\sin A = \frac{\sqrt{5}}{5}$, $\sin B = \frac{2\sqrt{5}}{5}$, $\cos A = \frac{2\sqrt{5}}{5}$, $\cos B = \frac{\sqrt{5}}{5}$

8. Solve $\triangle ABC$ from #7.

$$A = 26.57^\circ$$

$$B = 63.43^\circ$$

$$C = 90^\circ$$

$$a = 1$$

$$b = 2$$

$$c = \sqrt{5} \text{ or } 2.24$$

$$\sin A = \frac{1}{\sqrt{5}} = \frac{\sqrt{5}}{5}$$

$$A = \sin^{-1}\left(\frac{\sqrt{5}}{5}\right)$$

$$A = 26.57^\circ$$



Trigonometry Study Guide Answer Key

B Lingard



Trigonometry Study Guide Answer Key:

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Table of Contents Trigonometry Study Guide Answer Key

1. Understanding the eBook Trigonometry Study Guide Answer Key
 - The Rise of Digital Reading Trigonometry Study Guide Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Trigonometry Study Guide Answer Key
 - 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 Trigonometry Study Guide Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Trigonometry Study Guide Answer Key
 - Personalized Recommendations

- Trigonometry Study Guide Answer Key User Reviews and Ratings
- Trigonometry Study Guide Answer Key and Bestseller Lists
- 5. Accessing Trigonometry Study Guide Answer Key Free and Paid eBooks
 - Trigonometry Study Guide Answer Key Public Domain eBooks
 - Trigonometry Study Guide Answer Key eBook Subscription Services
 - Trigonometry Study Guide Answer Key Budget-Friendly Options
- 6. Navigating Trigonometry Study Guide Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Trigonometry Study Guide Answer Key Compatibility with Devices
 - Trigonometry Study Guide Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Trigonometry Study Guide Answer Key
 - Highlighting and Note-Taking Trigonometry Study Guide Answer Key
 - Interactive Elements Trigonometry Study Guide Answer Key
- 8. Staying Engaged with Trigonometry Study Guide Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Trigonometry Study Guide Answer Key
- 9. Balancing eBooks and Physical Books Trigonometry Study Guide Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Trigonometry Study Guide Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Trigonometry Study Guide Answer Key
 - Setting Reading Goals Trigonometry Study Guide Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Trigonometry Study Guide Answer Key
 - Fact-Checking eBook Content of Trigonometry Study Guide Answer Key

- 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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