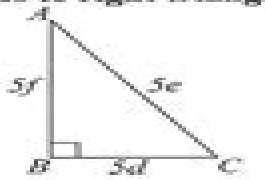
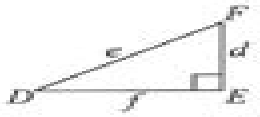
MA2G2. Students will define and apply sine, cosine, and tangent ratios to right triangles.

3. Given the following two triangles finish the statements:





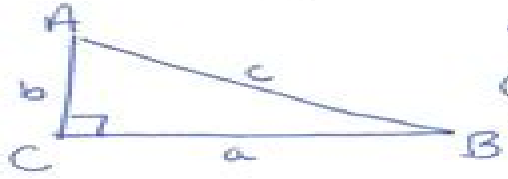
a. Sin A in the first triangle = Cos **F** in the second triangle.

$\sin A = \frac{5d}{5e} = \frac{d}{e}$ $\quad \cos F = \frac{d}{e}$

b. Cos D in the second triangle = Sin **C** in the first triangle.

$\cos D = \frac{f}{e}$ $\quad \sin C = \frac{5f}{5e} = \frac{f}{e}$

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

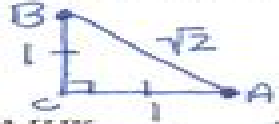


$\sin A = \frac{a}{c}$ $\quad \cos A = \frac{b}{c}$ $\quad \tan A = \frac{a}{b}$

$\sin B = \frac{b}{c}$ $\quad \cos B = \frac{a}{c}$ $\quad \tan B = \frac{b}{a}$

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

45°-45°-90°



$\sin A = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$ $\quad \cos A = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$ $\quad \tan A = \frac{1}{1} = 1$

$\sin B = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$ $\quad \cos B = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$ $\quad \tan B = \frac{1}{1} = 1$

6. If the length of IJ is 47ft, find the perimeter of ΔHJK.

Round your answer to the nearest tenth.

- $\sin 50° = \frac{47}{HJ} \rightarrow HJ = \frac{47}{\sin 50°} = 61.35$
- $\tan 50° = \frac{47}{HI} \rightarrow HI = \frac{47}{\tan 50°} = 39.44$
- $\sin 25° = \frac{47}{JK} \rightarrow JK = \frac{47}{\sin 25°} = 111.21$
- $\tan 25° = \frac{47}{IK} \rightarrow IK = \frac{47}{\tan 25°} = 100.79$

$61.35 + 39.44 + 111.21 + 100.79 =$ **312.79ft**

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

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

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

$A = 26.57°$

8. Solve ΔABC from #7.

$A = 26.57°$ $\quad a = 1$

$B = 63.43°$ $\quad b = 2$

$C = 90°$ $\quad c = \sqrt{5}$ or 2.24

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F Rizvi

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Table of Contents Right Triangles And Trigonometry Test Answers

1. Understanding the eBook Right Triangles And Trigonometry Test Answers
    - The Rise of Digital Reading Right Triangles And Trigonometry Test Answers
    - Advantages of eBooks Over Traditional Books
2. Identifying Right Triangles And Trigonometry Test Answers
    - 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 Right Triangles And Trigonometry Test Answers
    - User-Friendly Interface
4. Exploring eBook Recommendations from Right Triangles And Trigonometry Test Answers
    - Personalized Recommendations
    - Right Triangles And Trigonometry Test Answers User Reviews and Ratings
    - Right Triangles And Trigonometry Test Answers and Bestseller Lists

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