

**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 =  $\cos E$  in the second triangle.

$$\sin A = \frac{5d}{5e} = \frac{d}{e} \qquad \cos E = \frac{d}{e}$$

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

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



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



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

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

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



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

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

Round your answer to the nearest tenth.

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



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

7. In  $\triangle ABC$  where  $\angle C$  is  $90^\circ$ , 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.

$$\begin{aligned} A &= 26.57^\circ & a &= 1 \\ B &= 63.43^\circ & b &= 2 \\ C &= 90^\circ & c &= \sqrt{5} \text{ or } 2.24 \end{aligned}$$

$$\begin{aligned} \sin A &= \frac{1}{\sqrt{5}} = \frac{\sqrt{5}}{5} \\ A &= \sin^{-1}\left(\frac{\sqrt{5}}{5}\right) \\ A &= 26.57^\circ \end{aligned}$$



# Right Triangles And Trigonometry Test Answers

**S Nieto**



**Right Triangles And Trigonometry Test Answers:**

This book delves into Right Triangles And Trigonometry Test Answers. Right Triangles And Trigonometry Test Answers is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Right Triangles And Trigonometry Test Answers, encompassing both the fundamentals and more intricate discussions.

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    - Chapter 1: Introduction to Right Triangles And Trigonometry Test Answers
    - Chapter 2: Essential Elements of Right Triangles And Trigonometry Test Answers
    - Chapter 3: Right Triangles And Trigonometry Test Answers in Everyday Life
    - Chapter 4: Right Triangles And Trigonometry Test Answers in Specific Contexts
    - Chapter 5: Conclusion
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  3. In chapter 2, this book will delve into the foundational concepts of Right Triangles And Trigonometry Test Answers. The second chapter will elucidate the essential principles that must be understood to grasp Right Triangles And Trigonometry Test Answers in its entirety.
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