

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.

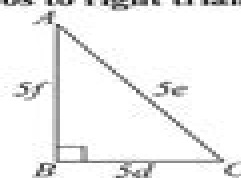
$$\sin A = \frac{5d}{5e} = \frac{d}{e}$$

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

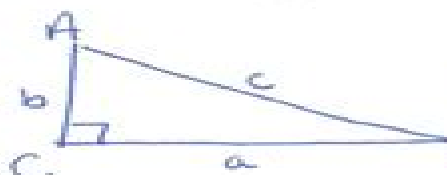
- b. $\cos D$ in the second triangle = \sin **C** in the first triangle.

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

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



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.

$$\begin{aligned}A &= 26.57^\circ \\ B &= 63.43^\circ \\ C &= 90^\circ\end{aligned}$$

$$\begin{aligned}a &= 1 \\ b &= 2 \\ c &= \sqrt{5} \text{ or } 2.24\end{aligned}$$

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



Test 33 Trigonometry

M Lipman



Test 33 Trigonometry:

The book delves into Test 33 Trigonometry. Test 33 Trigonometry is an essential 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 Test 33 Trigonometry, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Test 33 Trigonometry
- Chapter 2: Essential Elements of Test 33 Trigonometry
- Chapter 3: Test 33 Trigonometry in Everyday Life
- Chapter 4: Test 33 Trigonometry in Specific Contexts
- Chapter 5: Conclusion

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