

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° , $\sin A$ 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° , $\cos B$ 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° , 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.

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

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



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