

**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.

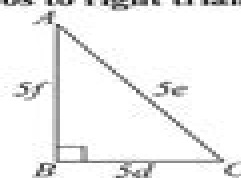
$$\sin A = \frac{5d}{5e} = \frac{d}{e}$$

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

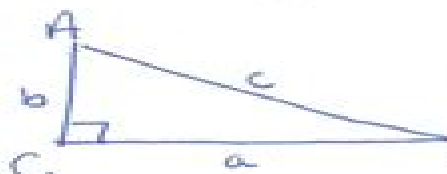
- b.  $\cos D$  in the second triangle =  $\sin$  **C** in the first triangle.

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

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



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



$$\sin A = \frac{a}{c}$$

$$\cos A = \frac{b}{c}$$

$$\tan A = \frac{a}{b}$$

$$\sin B = \frac{b}{c}$$

$$\cos B = \frac{a}{c}$$

$$\tan B = \frac{b}{a}$$

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

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



$$\sin A = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

$$\cos A = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

$$\tan A = \frac{1}{1} = 1$$

$$\sin B = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

$$\cos B = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

$$\tan B = \frac{1}{1} = 1$$

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  $90^\circ$ , 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.

$$A = 26.57^\circ$$

$$B = 63.43^\circ$$

$$C = 90^\circ$$

$$a = 1$$

$$b = 2$$

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

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

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

$$A = 26.57^\circ$$



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