

Choose Trigonometric Ratios



Use the matching sheet ID when checking answers.

Use the material to work through each task. Show the requested response.

1. Find $\sin A$.

Answer: $\frac{3}{5}$

2. Find $\cos A$.

Answer: $\frac{4}{5}$

3. Find $\tan A$.

Answer: $\frac{3}{4}$

4. If $\sin B = \frac{1}{2}$ and the hypotenuse is 10, find the opposite side.

Answer: 5

5. For the other acute angle, what is the sine ratio in the 3 4 5 triangle?

Answer: $\frac{4}{5}$

6. Why do opposite and adjacent change when the reference angle changes?

Look for:

- Uses the reference angle correctly.

One possible response: They are defined relative to the chosen angle; the hypotenuse stays opposite the right angle.

Open responses use criteria and an illustrative response. Other well-supported responses can be acceptable.