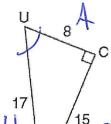
Date

Geometry

## Trigonometric Ratios

1. The diagram below shows right triangle UPC.

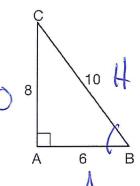


Which ratio represents the sine of  $\angle U$ ?

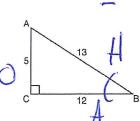
3) 
$$\frac{8}{15}$$
  $\frac{17}{4}$   $\frac{8}{17}$   $\frac{17}{15}$ 

2. In  $\triangle ABC$  below, the measure of  $\angle A = 90^{\circ}$ , AB = 6, AC = 8, and BC = 10.

Which ratio represents the sine of  $\angle B$ ?



3. Which ratio represents the tangent of  $\angle ABC$ ?



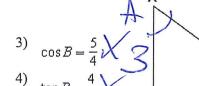
4. Which ratio represents  $\sin x$  in the right triangle shown below?

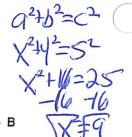


45

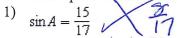
5. Which equation could be used to find the measure of one acute angle in the right triangle shown below?







- $\tan A = \frac{5}{4}$
- 6. Which equation shows a correct trigonometric ratio for angle A in the right triangle below?



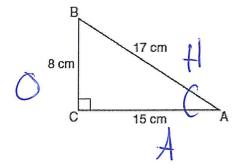


$$\tan A = \frac{8}{17}$$

$$(3)$$

$$\cos A = \frac{15}{12}$$

4) 
$$\tan A = \frac{5}{8}$$



7. In right triangle JKL in the diagram below, KL = 7, JK = 24, JL = 25, and  $\angle K = 90^{\circ}$ .

Which statement is not true?

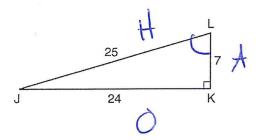
$$\tan L = \frac{24}{7} \checkmark$$

$$\frac{2}{\cos L} = \frac{24}{25} \times \frac{7}{25}$$

$$3) \quad \tan J = \frac{7}{24}$$

3) 
$$\tan J = \frac{7}{24}$$

4) 
$$\sin J = \frac{7}{25}$$



8. In right triangle ABC shown below, AC = 12, BC = 16, and AB = 20.

Which equation is not correct?

1) 
$$\cos A = \frac{12}{20} \quad \iota$$

2) 
$$\tan A = \frac{16}{12} \ \nu$$

3) 
$$\sin B = \frac{12}{20}$$

$$\begin{array}{c}
4) & \tan B = \frac{16}{20} \\
\end{array}$$

