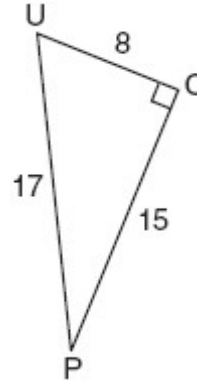


Trigonometric Ratios

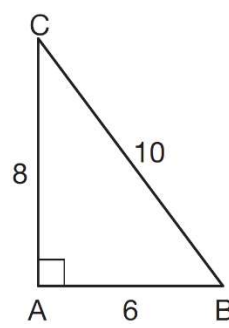
1. The diagram below shows right triangle UPC .



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

- 1) $\frac{15}{8}$
- 2) $\frac{15}{17}$
- 3) $\frac{8}{15}$
- 4) $\frac{8}{17}$

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

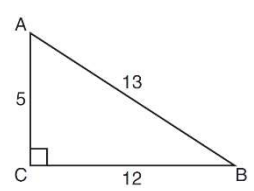


Which ratio represents the sine of $\angle B$?

- 1) $\frac{10}{8}$
- 2) $\frac{8}{6}$
- 3) $\frac{6}{10}$
- 4) $\frac{8}{10}$

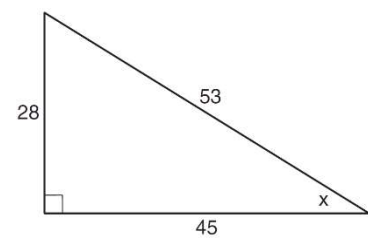
3. Which ratio represents the tangent of $\angle ABC$?

- 1) $\frac{5}{13}$
- 2) $\frac{5}{12}$
- 3) $\frac{12}{13}$
- 4) $\frac{12}{5}$



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

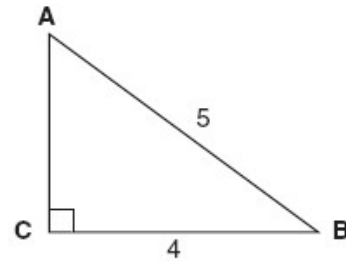
- 1) $\frac{28}{53}$
- 2) $\frac{28}{45}$
- 3) $\frac{45}{53}$
- 4) $\frac{53}{28}$



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

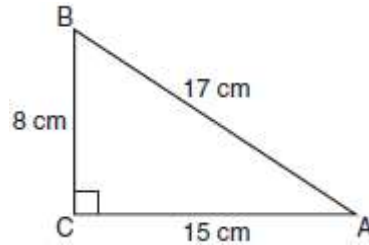
- 1) $\sin A = \frac{4}{5}$
- 2) $\tan A = \frac{5}{4}$

- 3) $\cos B = \frac{5}{4}$
- 4) $\tan B = \frac{4}{5}$



6. Which equation shows a correct trigonometric ratio for angle A in the right triangle below?

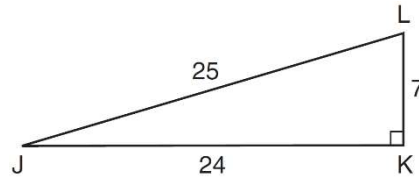
- 1) $\sin A = \frac{15}{17}$
- 2) $\tan A = \frac{8}{17}$
- 3) $\cos A = \frac{15}{17}$
- 4) $\tan A = \frac{5}{8}$



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?

- 1) $\tan L = \frac{24}{7}$
- 2) $\cos L = \frac{24}{25}$
- 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) $\cos A = \frac{12}{20}$
- 2) $\tan A = \frac{16}{12}$
- 3) $\sin B = \frac{12}{20}$
- 4) $\tan B = \frac{16}{20}$

