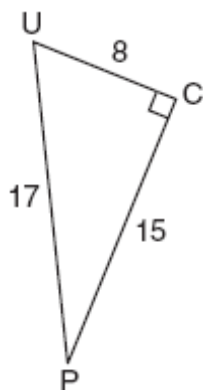


NAME: \_\_\_\_\_

1. 010919ia, P.I. A.A.42

The diagram below shows right triangle  $UPC$ .



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

- [A]  $\frac{8}{15}$  [B]  $\frac{8}{17}$  [C]  $\frac{15}{8}$  [D]  $\frac{15}{17}$

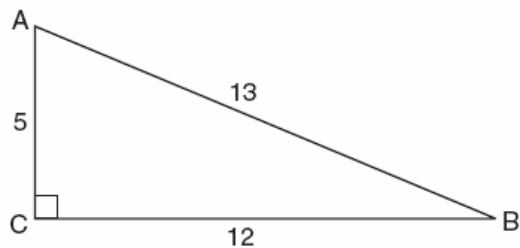
2. fall0721ia, P.I. A.A.42

In triangle  $MCT$ , the measure of  $\angle T = 90^\circ$ ,  
 $MC = 85$  cm,  $CT = 84$  cm, and  $TM = 13$  cm.  
 Which ratio represents the sine of  $\angle C$ ?

- [A]  $\frac{13}{84}$  [B]  $\frac{84}{85}$  [C]  $\frac{84}{13}$  [D]  $\frac{13}{85}$

3. 080414a, P.I. A.A.42

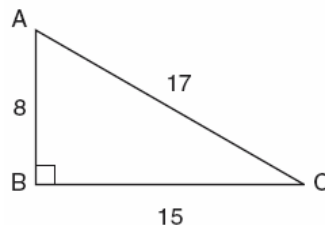
Which ratio represents  $\cos A$  in the accompanying diagram of  $\triangle ABC$ ?



- [A]  $\frac{12}{5}$  [B]  $\frac{13}{5}$  [C]  $\frac{5}{13}$  [D]  $\frac{12}{13}$

4. 010316a, P.I. A.A.42

In the accompanying diagram of right triangle  $ABC$ ,  $AB = 8$ ,  $BC = 15$ ,  $AC = 17$ , and  $m\angle ABC = 90$ .



What is  $\tan \angle C$ ?

- [A]  $\frac{8}{15}$  [B]  $\frac{8}{17}$  [C]  $\frac{17}{15}$  [D]  $\frac{15}{17}$

[1] D

[2] D

[3] C

[4] A