

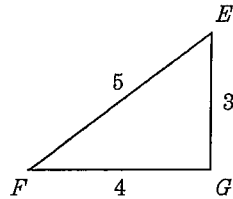
# HW on Trigonometry

Name: \_\_\_\_\_

Date: \_\_\_\_\_

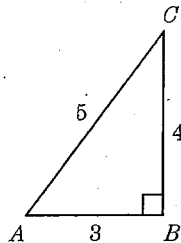
1. In the accompanying diagram, what is  $\sin E$ ?

- A.  $\frac{3}{4}$       B.  $\frac{4}{3}$   
C.  $\frac{3}{5}$       D.  $\frac{4}{5}$



2. In the accompanying diagram, the legs of right triangle  $ABC$  are 4 and 3, and the hypotenuse is 5. What is the value of  $\tan A$ ?

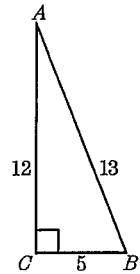
- A.  $\frac{4}{3}$       B.  $\frac{3}{5}$   
C.  $\frac{4}{5}$       D.  $\frac{3}{4}$



3. In the accompanying diagram of right triangle  $ABC$ , legs  $AC$  and  $BC$  are 12 and 5, respectively, and hypotenuse  $AB$  is 13.

What is  $\tan B$ ?

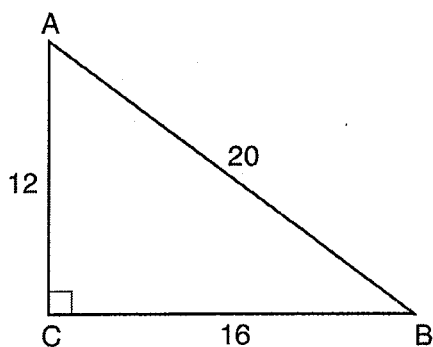
- A.  $\frac{12}{5}$       B.  $\frac{12}{13}$   
C.  $\frac{5}{13}$       D.  $\frac{5}{12}$



4. In  $\triangle ABC$ ,  $m\angle A = 25^\circ$  and  $m\angle C = 90^\circ$ . Which ratio represents  $\tan 65^\circ$ ?

- A.  $\frac{AC}{AB}$       B.  $\frac{AC}{BC}$       C.  $\frac{AB}{AC}$       D.  $\frac{BC}{AC}$

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



Which equation is *not* correct?

- A.  $\cos A = \frac{12}{20}$       B.  $\tan A = \frac{16}{12}$   
C.  $\sin B = \frac{12}{20}$       D.  $\tan B = \frac{26}{20}$