1. In $\triangle ABC$ C is the right angle and $\cos B = \frac{8}{17}$. Find each of the following as a ratio:

 $\sin B =$

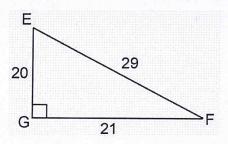
tan B =

sin A =

 $\cos A =$

tan A =

2.Use the given triangle to find each as a ratio:



tan F =

 $\csc E =$

 $\cot E =$

 $\cos F =$

 $\sin F =$

 $\sec F =$

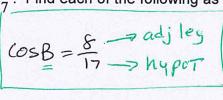
3. Use your calculator to find each to the nearest hundredth.

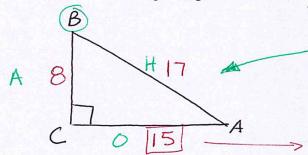
a)
$$\csc 89^{\circ} =$$

b)
$$\cot 9^{\circ} =$$

AnswERS

1. In $\triangle ABC$ C is the right angle and $\cos B = \frac{8}{17}$. Find each of the following as a ratio:





$$\sin B = \frac{15}{17}$$

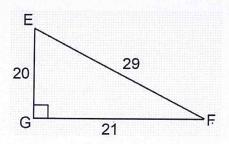
$$\tan B = \frac{15}{8}$$

$$\sin A = 8$$

$$\cos A = \frac{15}{17}$$

$$\tan A = \frac{8}{15}$$

2.Use the given triangle to find each as a ratio:



$$\tan F = 20$$

$$\csc E = \frac{29}{21}$$

$$\csc E = \frac{1}{21}$$

$$\csc E = \frac{1}{21}$$

$$\csc E = \frac{1}{21}$$

$$\cos F = \frac{21}{39}$$

$$\sin F = \frac{20}{29}$$

$$\cot E = \frac{20/21}{\cos T = \frac{1}{T\cos N}}$$

Sec =
$$\frac{1}{\cos}$$

 $\cos F = \frac{21}{29}$

3. Use your calculator to find each to the nearest hundredth.

a)
$$\csc 89^{\circ} = | , OO$$

b)
$$\cot 9^{\circ} = 6.3$$

c)
$$\sec 22^{\circ} = 1.08$$