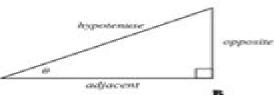
The trig, ratios, sine, cosine, and tangent are based on properties of right triangles. The function values depend on the measure of the angle.

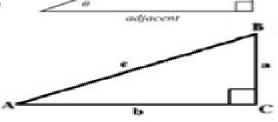
sine  $\theta = \sin \theta = (\text{side opposite } \theta)/\text{hypotenuse}$ 

cosine  $\theta = \cos \theta = (\text{side adjacent }\theta)/\text{hypotenuse}$ 

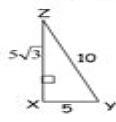
tangent  $\theta = \tan \theta = (\text{side opposite } \theta)/(\text{side adjacent } \theta)$ 

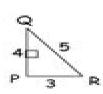


In triangle ABC,  $\sin A = a/c$ ,  $\cos A = b/c$ , and  $\tan A = a/b$ .



Calculate the trig ratios based on the pictures below:





1) 
$$\sin Y = \frac{5\sqrt{3}}{10} = \frac{\sqrt{3}}{2}$$
 7)  $\sin R = \frac{4}{5}$   
2)  $\cos Y = \frac{5}{10} = \frac{1}{2}$  8)  $\cos R = \frac{3}{5}$ 

2) 
$$\cos Y = \frac{5}{10} = \frac{1}{2}$$

3) 
$$\tan Y = \frac{5\sqrt{3}}{5} = \sqrt{3}$$
 9)  $\tan R = \frac{4}{3}$ 

4) 
$$\sin Z = \frac{5}{10} = \frac{1}{2}$$
 10)  $\sin Q = \frac{3}{5}$ 

5) 
$$\cos Z = \frac{5\sqrt{3}}{10} = \frac{\sqrt{3}}{2}$$
 11)  $\cos Q = \frac{4}{5}$ 

6) 
$$\tan Z = \frac{5}{5\sqrt{3}} = \frac{\sqrt{3}}{3}$$
 12)  $\tan Q = \frac{3}{4}$ 

7) 
$$\sin R = \frac{4}{5}$$

8) 
$$\cos R = \frac{3}{5}$$

9) 
$$\tan R = \frac{7}{3}$$

10) 
$$\sin Q = \frac{1}{5}$$

11) 
$$\cos Q = \frac{4}{5}$$

12) 
$$\tan Q = \frac{3}{4}$$

Convert the following fractions to decimals, rounding your answer to the ten-thousandths place:

13) 
$$\frac{5}{10}$$
 = .5000

14) 
$$\frac{5\sqrt{3}}{10} = ...8660$$

15) 
$$\frac{5\sqrt{3}}{5} = 1.7321$$

Convert the following to decimals. Do not round! Leave answers precise, but in decimal form.

16) 
$$\frac{4}{5} = .8$$

17) 
$$\frac{3}{5} = .6$$

17) 
$$\frac{3}{5}$$
 = .6 18)  $\frac{4}{3}$  = 1.3

Use your calculator to find the inverse sine, "sin" (2nd then SIN on most calculators) of the values above. Write the results here:

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**Emilie Sanchez** 

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horizontal line segment to indicate the energy of the products draw a vertical line segment to indicate  $\Delta h$  for the reaction and label it with the correct value see attached image

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