

## HW 68: Trig Ratio Worksheet

Answer Key

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

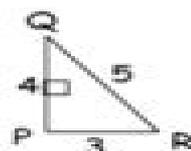
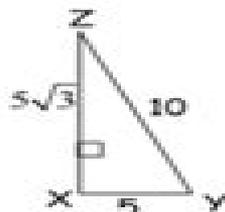


In triangle ABC,

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



Calculate the trig ratios based on the pictures below:



$$1) \sin Y = \frac{5\sqrt{3}}{10} = \frac{\sqrt{3}}{2}$$

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

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

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

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

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

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

$$10) \sin Q = \frac{3}{5}$$

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

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

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

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

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.

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

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

$$18) \frac{4}{3} = 1.\bar{3}$$

Use your calculator to find the inverse sine, " $\sin^{-1}$ " ( $2^{\text{nd}}$  then SIN on most calculators) of the values above. Write the results here:

$$13) \underline{30^\circ} \quad 14) \underline{60^\circ} \quad 15) \text{ERROR} \quad 16) \underline{53.13^\circ} \quad 17) \underline{38.87^\circ} \quad 18) \text{ERROR}$$

# Lesson 12 4 Extending Trigonometry Answer Key

**Thomas Griffiths**



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