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 θ = sin θ = (side opposite θ)/hypotenuse

cosine θ = cos θ = (side adjacent θ)/hypotenuse

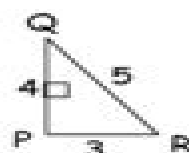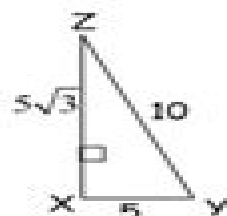tangent θ = tan θ = (side opposite θ)/(side adjacent θ)

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) $\sin Y = \dfrac{5\sqrt{3}}{10} = \dfrac{\sqrt{3}}{2}$ 7) $\sin R = \dfrac{4}{5}$

2) $\cos Y = \dfrac{5}{10} = \dfrac{1}{2}$ 8) $\cos R = \dfrac{3}{5}$

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

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

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

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

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

13) $\dfrac{5}{10} = .5000$ 14) $\dfrac{5\sqrt{3}}{10} = .8660$ 15) $\dfrac{5\sqrt{3}}{5} = 1.7321$

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

16) $\dfrac{4}{5} = .8$ 17) $\dfrac{3}{5} = .6$ 18) $\dfrac{4}{3} = 1.\overline{3}$

Use your calculator to find the inverse sine, "sin⁻¹" (2ⁿᵈ then SIN on most calculators) of the values above. Write the results here:

13) __30°__   14) __60°__   15) ERROR 16) __53.13°__   17) __38.87°__   18) ERROR

Lesson 12 1 Trigonometric Ratios Exercises

Daniel F McAuley

Lesson 12 1 Trigonometric Ratios Exercises:

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14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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