

## Trigonometry Math

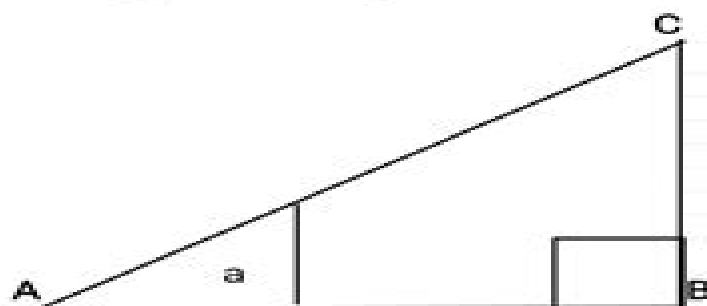
### 2nd grade High School of Glenmore

## Trigonometry Math Practice Sine, Cosine & Tangent

### Trigonometry Ratio

#### 1. Definition

Trigonometry ratios are the ratios of the sizes of a right triangle when viewed from one of the angles of the triangle.



AC : Hypotenuse | BC : Opposite | AB : adjacent

From the illustration above, there is a comparison as follows:

- a. **Sine** (a)  $BC/AC$  (Opposite side with Hypotenuse side).
- b. **Cosine** (a)  $AB/AC$  (Adjacent side with Hypotenuse side).
- c. **Tangent** (a)  $BC/AB$  (Opposite side with Adjacent side).
- d. **Cosecans** (a)  $AC/BC$  (Hypotenuse side with Opposite side).
- e. **Secans** (a)  $AC/AB$  (Hypotenuse side with Adjacent side).
- f. **Cotangent** (a)  $AB/BC$  (Adjacent side with Opposite side).

$$\text{Relation } \frac{\sin a}{\cos a} = \tan a$$

- **Example 1 :**

Find the sine, cosecans and tangent in the trigonometric ratios of the triangle XYZ!

Answer :

# Study Guide Trigonometry Ratios

**McGraw-Hill Staff**



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