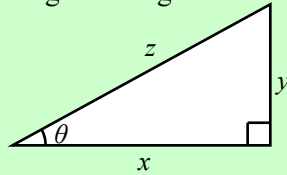


Name: _____ () Class: _____ Date: _____

Elementary Worksheet 11.3B

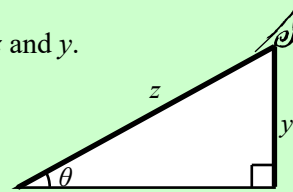
Objective: To recognize different trigonometric ratios of right-angled triangles.

The following is a right-angled triangle with one of its acute angles θ .



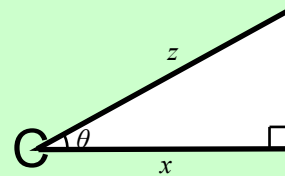
1. Write the 's' of sin in copperplate script, its shape is like enclosing z and y .

This helps to memorize ' $\sin \theta = \frac{y}{z}$ '.



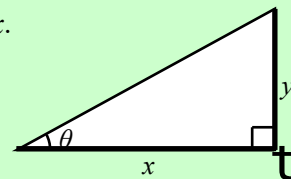
2. Write the 'c' of cos, its shape is like enclosing z and x .

This helps to memorize ' $\cos \theta = \frac{x}{z}$ '.

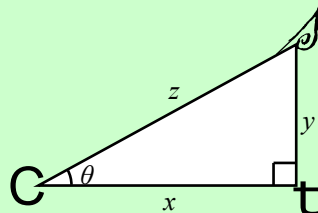


3. Write the 't' of tan, its shape is like the perpendicular sides y and x .

This helps to memorize ' $\tan \theta = \frac{y}{x}$ '.

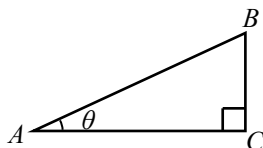


We can use one single figure to memorize the above cases:



In each of the following right-angled triangles, write the ratios of $\sin \theta$, $\cos \theta$ and $\tan \theta$. (1 – 6)

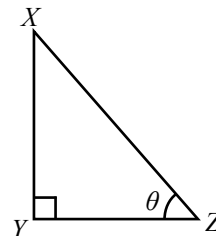
1.



$$\sin \theta = \frac{(\quad)}{(\quad)}, \cos \theta = \frac{(\quad)}{(\quad)},$$

$$\tan \theta = \frac{(\quad)}{(\quad)}$$

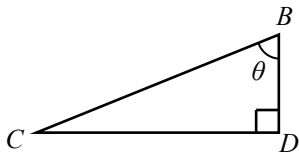
2.



$$\sin \theta = \frac{(\quad)}{(\quad)}, \cos \theta = \frac{(\quad)}{(\quad)},$$

$$\tan \theta = \frac{(\quad)}{(\quad)}$$

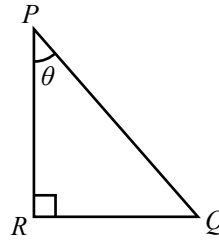
3.



$$\sin \theta = \frac{(\quad)}{(\quad)}, \cos \theta = \frac{(\quad)}{(\quad)},$$

$$\tan \theta = \frac{(\quad)}{(\quad)}$$

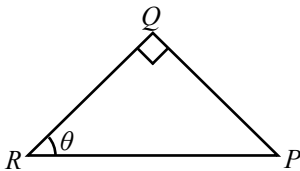
5.



$$\sin \theta = \frac{(\quad)}{(\quad)}, \cos \theta = \frac{(\quad)}{(\quad)},$$

$$\tan \theta = \frac{(\quad)}{(\quad)}$$

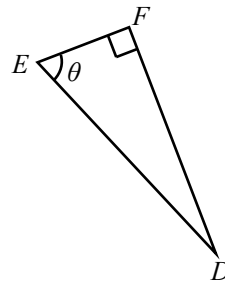
5.



$$\sin \theta = \frac{(\quad)}{(\quad)}, \cos \theta = \frac{(\quad)}{(\quad)},$$

$$\tan \theta = \frac{(\quad)}{(\quad)}$$

6.



$$\sin \theta = \frac{(\quad)}{(\quad)}, \cos \theta = \frac{(\quad)}{(\quad)},$$

$$\tan \theta = \frac{(\quad)}{(\quad)}$$