

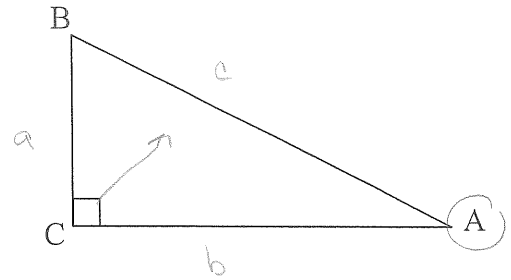
Trig Day 1 Right Triangle Trigonometry (SOHCAHTOA)

Given any Right triangle in which A is one of the acute angles,

$$\sin A = \frac{O}{H} = \frac{a}{c}$$

$$\cos A = \frac{A}{H} = \frac{b}{c}$$

$$\tan A = \frac{O}{A} = \frac{a}{b}$$



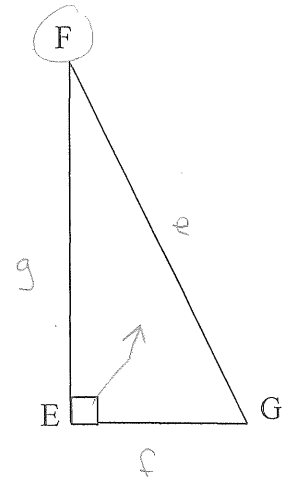
Refer to $\triangle EFG$. Give each trig. ratio in terms of f, g, and e.

$$\sin F = \frac{f}{e}$$

$$\tan F = \frac{f}{g}$$

$$\cos F = \frac{g}{e}$$

$$\sin G = \frac{g}{e}$$



Use a calculator to find the following: (Are you in degrees?????)
Round thousandths

$$\tan 70^\circ = 2.747$$

$$\cos 48^\circ = .669$$

$$\sin 30^\circ = .500$$

$$\cos 60^\circ = .500$$

Inverse

Find the measure of the angle whose trig value is given:

$$\sin A = .3991$$

$$23.522^\circ$$

$$\sin 23.522 = .3991$$

$$\cos B = .4567$$

$$62.826$$

$$\tan F = \frac{7}{4}$$

$$60.255^\circ$$

$$\sin F = \frac{8}{5}$$

$$\star \cos^{-1}(.5) = 60^\circ$$

1-6 Find the value of x: 3 decimals

$$1) \sin 65^\circ = \frac{12}{x}$$

$$x = 13.241$$

$$2) \cos 71^\circ = \frac{x}{5}$$

$$x = 1.628$$

$$3) \sin X = \frac{23}{45}$$

$$30.738^\circ$$

$$4) \tan 33^\circ = \frac{x}{15}$$

$$x = 9.741$$

$$5) \cos 48^\circ = \frac{17}{x}$$

$$x = 25.406$$

$$6) \tan X = \frac{17}{24}$$

$$x = 35.311$$