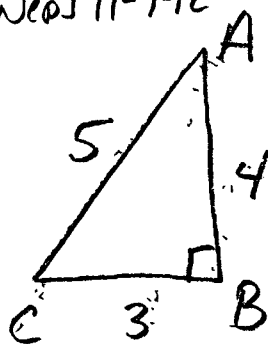


Homework Review

Weeks 11-7-12



Geometry Class Notes

SOH CAH TOA

$$\textcircled{3} \quad \sin C = \frac{4}{5} = .8$$

$$\textcircled{4} \quad \tan A = \frac{3}{4} = .75$$

$$\textcircled{5} \quad \cos A = \frac{4}{5}$$

$$\textcircled{6} \quad \cos C = \frac{3}{5} = .6$$

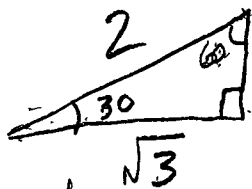
$$\begin{array}{r} 1.\bar{3} \\ 3 \overline{) 4.00} \\ \underline{3} \\ 10 \\ \underline{9} \\ 10 \\ \underline{9} \\ 10 \end{array}$$

$$\textcircled{7} \quad \tan C = \frac{4}{3} = 1.\bar{3} \approx 1.3333$$

$$\textcircled{8} \quad \sin A = \frac{3}{5} = .6$$

$\textcircled{\text{Ex}} \quad \sin^{-1}(.8) = 53^\circ$ "The angle whose sin is..."

$$\textcircled{9} \quad \cos 60^\circ$$

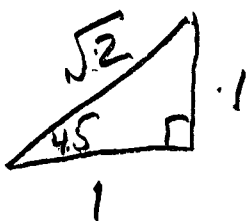


$$\cos 60^\circ = \frac{1}{2}$$

CAH

$$\textcircled{10} \quad \tan 30^\circ = \frac{1}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{\sqrt{3}}{3}$$

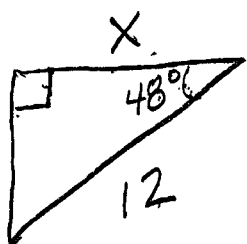
$$\textcircled{11} \quad \sin 45^\circ$$



$$\sin 45^\circ = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

Worksheet Problems Find X

(29)

~~SOH CAH TOA~~

$$\cos 48 = \frac{X}{12}$$

$$12 \cos 48 = X$$

$$\boxed{12(.6691)} = X$$

$$8.0292 = X$$

$$\boxed{8.0 = X}$$

(31)

SOH CAH (TOA)

$$X \tan 74 = \frac{11}{X} \cdot X$$

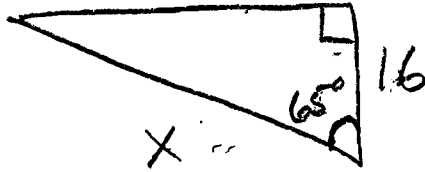
$$\frac{X \tan 74}{\tan 74} = \frac{11}{\tan 74}$$

$$X = \frac{11}{(3.4874)} \quad \boxed{}$$

$$X = 3.154$$

$$\boxed{X = 3.2}$$

(34)

~~SOH~~ CAT ~~TOA~~

$$X \cdot \cos 65 = \frac{16}{X} \cdot X$$

$$\downarrow$$

$$\frac{X \cos 65}{\cancel{\cos 65}} = \frac{16}{(\cos 65)}$$

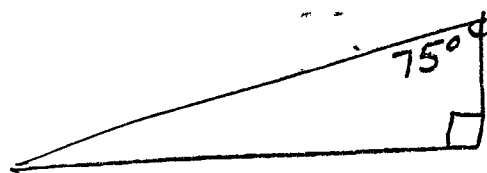
$$X = \frac{16}{.4226}$$

$$X = 37.8609$$



$$X = 37.9$$

(31)


~~SOH~~ ~~CAH~~ TOA

$$11 \cdot \tan 75 = \frac{11}{x}$$

$$\frac{x \tan 75}{\tan 75} = \frac{11}{\tan 75}$$

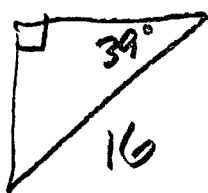
$$x = \frac{11}{(3.7321)}$$

$$x = 2.947402$$

$$\boxed{x = 2.9}$$

(43)

x



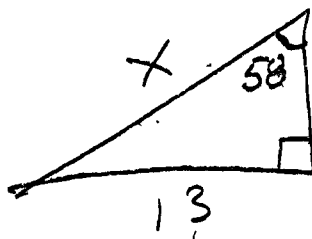
$$16 \sin 39 = \frac{x}{16} \cdot 16$$

$$16(.6293) = x$$

$$10.0688 = x$$

$$\boxed{10.1 = x}$$

(38)

SOH
BX~~CAH~~~~TOA~~

$$X \sin 58 = \frac{13}{*}$$

$$X = \frac{13}{(\sin 58)}$$

$$X = \frac{13}{(.8480)}$$

$$X = 15.330188$$

$$X = 15.3$$

(42)



SOH CAH TOA

$$\cos 66 = \frac{15}{X}$$

$$X \cos 66 = 15$$

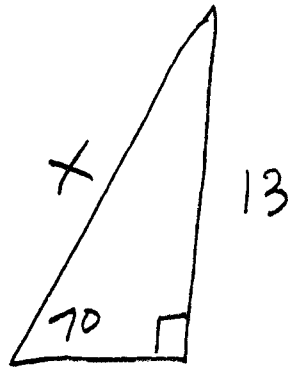
$$X = \frac{15}{(\cos 66)}$$



$$X = 36.8822$$

$$X = 36.9$$

(39)



SOH

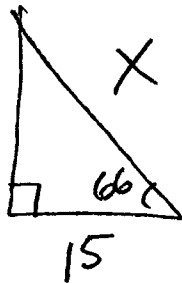
$$\sin 70 = \frac{13}{X}$$

$$X = \frac{13}{(.9397)}$$

$$X = 13.834202$$

$$X = 13.8$$

(42)



$$\cos 66 = \frac{15}{X}$$

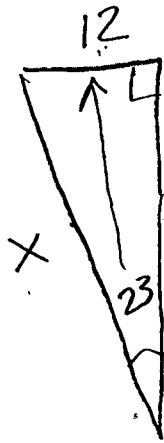
$$X \cos 66 = 15$$

$$X = \frac{15}{(.4067)}$$

$$X = 36.88222$$

$$X = 36.9$$

(44)



SOH CAH TOA

$$\sin 23 = \frac{12}{X}$$

$$\frac{X \sin 23}{\sin 23} = \frac{12}{\sin 23}$$

$$X = \frac{12}{(\sin 23)}$$

$$X = 30.714103$$

$$X = 30.7$$