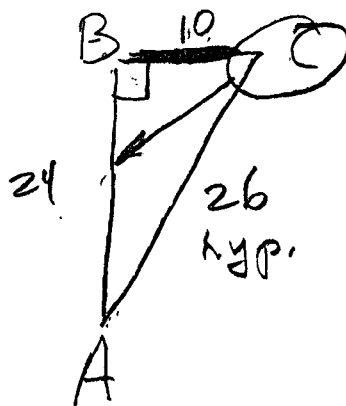


QUIZ

② $\tan C$
ID2

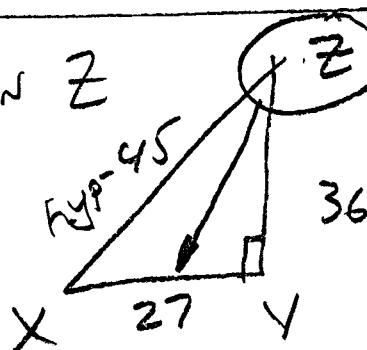


SOH CAH **TOA**

$$\tan C = \frac{24}{10} = 2.4000$$

REVIEW

① $\tan Z$
ID1

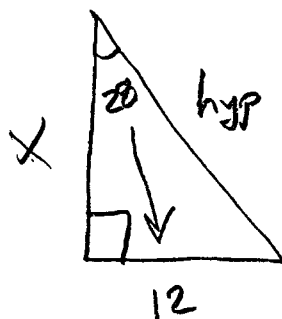


TOA

$$\tan Z = \frac{27}{36} = \frac{3}{4}$$

$$\tan Z = .7500$$

⑤



~~SOH CAH~~ **TOA**

$$X \tan 28 = \frac{12}{X}$$

$$\frac{X \tan 28}{\tan 28} = \frac{12}{\tan 28}$$

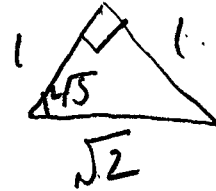
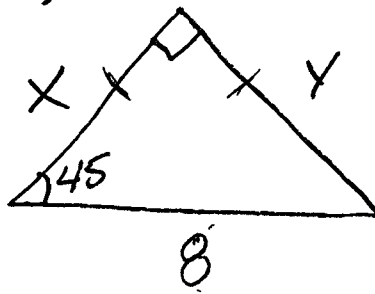
$$X = \frac{12}{(.5317)}$$

$$X = 22.5691$$

$$X = 22.6$$

Worksheet (ws)

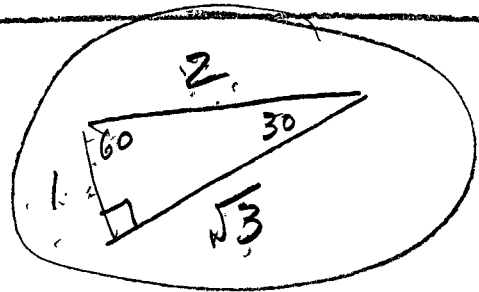
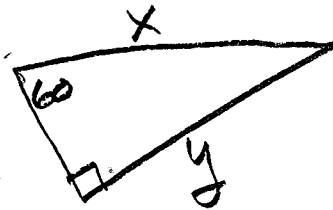
(42)



$$y \text{ or } X = \frac{8}{\sqrt{2}} \cdot \frac{\sqrt{2}}{\sqrt{2}} = \frac{8\sqrt{2}}{2} = \boxed{4\sqrt{2}}$$

(44)

$$\frac{2\sqrt{6}}{3}$$



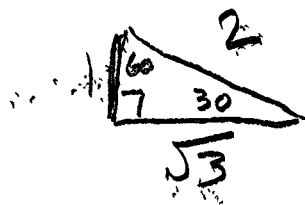
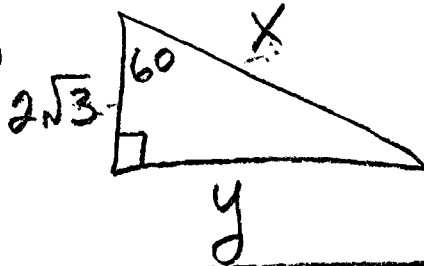
$$\boxed{X = \frac{2\sqrt{6}}{3} \cdot 2 = \frac{4\sqrt{6}}{3}} \quad \checkmark$$

$$y = \frac{2\sqrt{6}}{3} \cdot \sqrt{3} = \frac{2\sqrt{18}}{3} = \frac{2\sqrt{9} \cdot \sqrt{2}}{3} = \frac{2 \cdot 3 \cdot \sqrt{2}}{3}$$

$$\boxed{y = 2\sqrt{2}} \quad \checkmark$$

WS

(45)

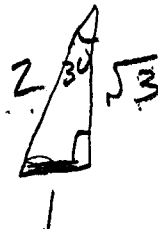
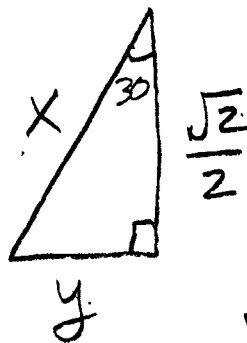


$$x = (2)(2\sqrt{3}) = 4\sqrt{3}$$

$$y = (2\sqrt{3})(\sqrt{3}) = 6$$

$$(2)(3)$$

(47)

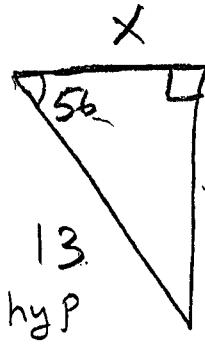


$$y = \frac{\frac{\sqrt{2}}{2}}{\frac{\sqrt{3}}{1}} = \frac{\sqrt{2}}{2} \cdot \frac{1}{\sqrt{3}} = \frac{\sqrt{2}}{2\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}}$$

$$y = \frac{\sqrt{6}}{6}$$

$$x = 2 \cdot \frac{\sqrt{6}}{6} = \frac{\sqrt{6}}{3}$$

(78)


~~SOH~~ CAH ~~TOA~~

$$13 \cdot \cos 56 = \frac{x}{13} \cdot 13$$

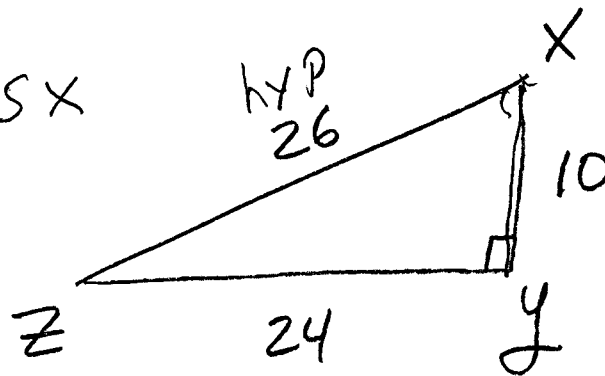
$$13(.5592) = x$$

$$\downarrow$$

$$7.269 = x$$

$$\boxed{7.3 = x}$$

(56)

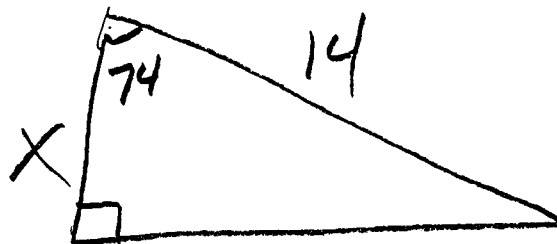
 $\cos X$ 

$$\cos X = \frac{10}{26} = \frac{5}{13}$$

$$\cos X = .3846$$

$$\cos^{-1}(.3846) \approx 67^\circ$$

(81)

~~SOPHICAN TOX~~

$$14 \cos 74 = \frac{X}{14} \cdot 14$$

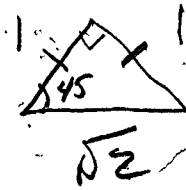
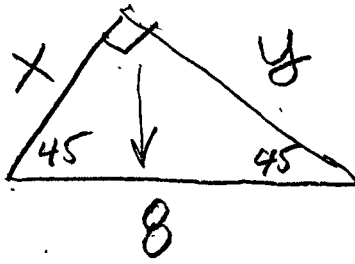
$$14 (.2756) = X$$

$$\downarrow$$

$$3.8584 = X$$

$$3.9 = X \quad \checkmark$$

(42)



$$x = y = \left(\frac{8}{\sqrt{2}} \right) \cdot \left(\frac{\sqrt{2}}{\sqrt{2}} \right) = \frac{8\sqrt{2}}{2} = \boxed{4\sqrt{2}}$$

(90)

SOH ~~CAH~~ ~~TOA~~

$$x \sin 18^\circ = \frac{10}{x} \cdot x$$

$$\downarrow$$

$$\frac{x \sin 18}{\cancel{\sin 10}} = \frac{10}{\sin 18}$$

$$x = \frac{10}{(.3090)}$$

$$\downarrow$$

$$x = 32.36$$

$$\boxed{x = 32.4} \quad \checkmark$$