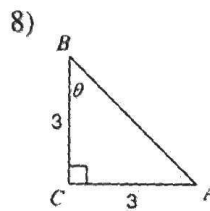
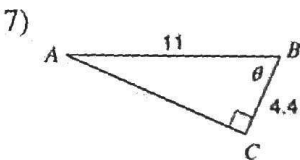
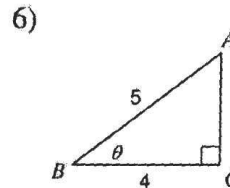
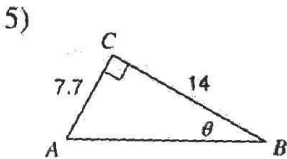
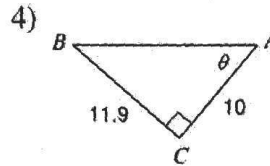
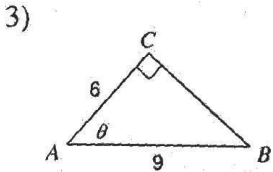
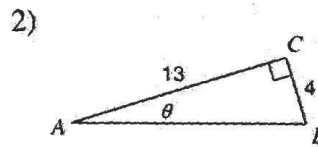
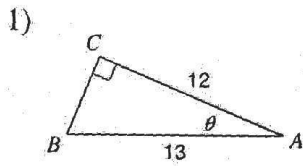
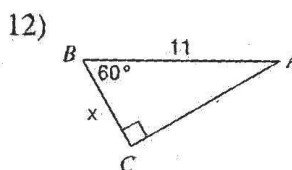
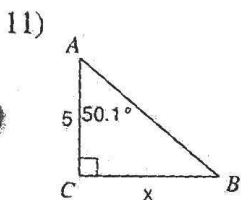
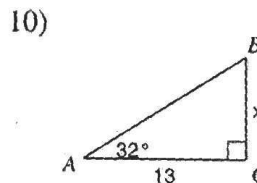
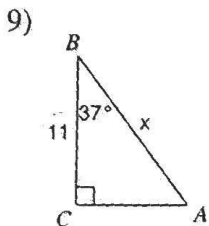


Right Triangle Trig. - Finding Missing Sides and Angles Date _____ Period _____

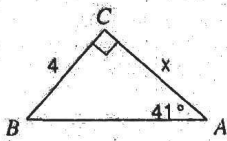
Find the measure of each angle indicated. Round to the nearest tenth.



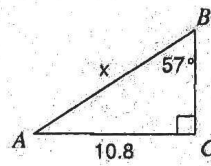
Find the measure of each side indicated. Round to the nearest tenth.



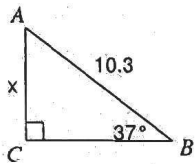
13)



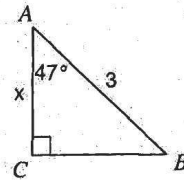
14)



15)

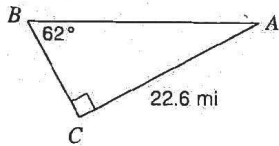


16)

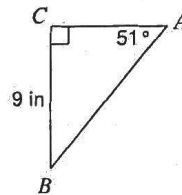


Solve each triangle. Round answers to the nearest tenth.

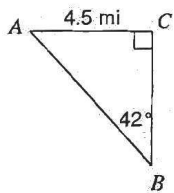
17)



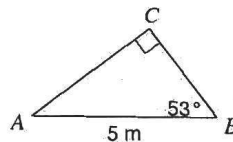
18)



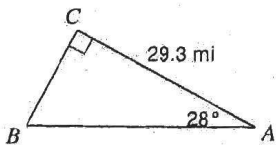
19)



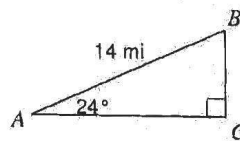
20)



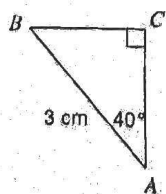
21)



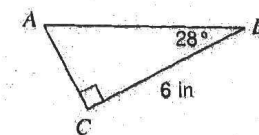
22)



23)



24)

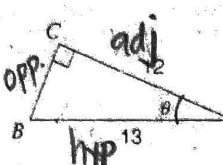


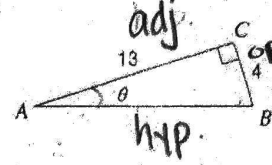
$\theta = \text{theta}$
aka: γ

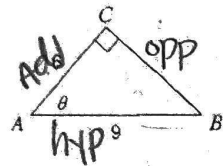
SOH CAH TOA

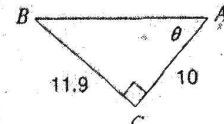
Right Triangle Trig. - Finding Missing Sides and Angles Date _____ Period _____

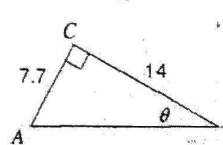
Find the measure of each angle indicated. Round to the nearest tenth.

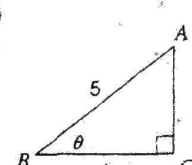
1)  $\cos \theta = \frac{12}{13}$
 $\cos \theta = .9231$
 $\theta \approx 22.6^\circ$

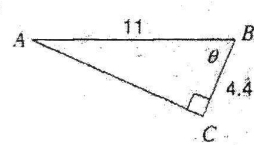
2)  $\tan \theta = \frac{4}{13}$
 $\tan \theta = .3077$
 $\theta \approx 17.1^\circ$

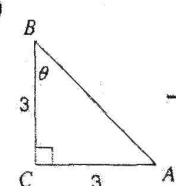
3)  $\cos \theta = \frac{6}{9}$
 $\cos \theta = .6667$
 $\theta \approx 48.2^\circ$

4)  $\tan \theta = \frac{11.9}{10}$
 $\tan \theta = 1.19$
 $\theta \approx 50^\circ$

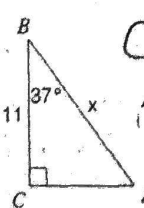
5)  $\tan \theta = \frac{7.7}{14}$
 $\tan \theta = .55$
 $\theta \approx 28.8^\circ$

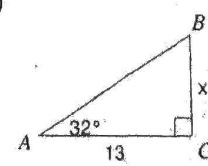
6)  $\cos \theta = \frac{4}{5}$
 $\cos \theta = .8$
 $\theta \approx 36.9^\circ$

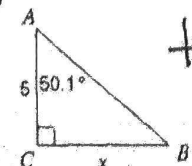
7)  $\cos \theta = \frac{4.4}{11}$
 $\cos \theta = .4$
 $\theta \approx 66.4^\circ$

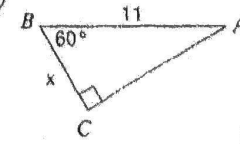
8)  $\tan \theta = \frac{3}{3}$
 $\tan \theta = 1$
 $\theta = 45^\circ$

Find the measure of each side indicated. Round to the nearest tenth.

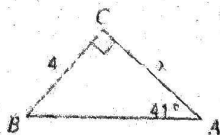
9)  $\cos 37^\circ = \frac{11}{x}$
 $x = \frac{11}{\cos 37^\circ}$
 $x \approx 13.8$

10)  $\tan 32^\circ = \frac{x}{13}$
 $13(\tan 32^\circ) = x$
 $x \approx 8.1$

11)  $\tan 50.1^\circ = \frac{x}{5}$
 $5(\tan 50.1^\circ) = x$
 $x \approx 6$

12)  $\cos 60^\circ = \frac{x}{11}$
 $11(\cos 60^\circ) = x$
 $x = 5.5$

13)

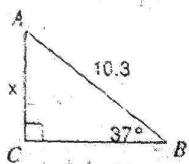


$$\tan 41^\circ = \frac{4}{x}$$

$$x = \frac{4}{\tan 41^\circ}$$

$$x \approx 4.6$$

15)



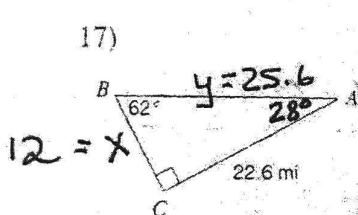
$$\sin 37^\circ = \frac{x}{10.3}$$

$$10.3(\sin 37^\circ) = x$$

$$x \approx 6.2$$

Solve each triangle. Round answers to the nearest tenth.

17)



$$\tan 62^\circ = \frac{22.6}{x}$$

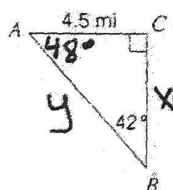
$$x = \frac{22.6}{\tan 62^\circ}$$

$$x \approx 12$$

$$y^2 = 654.76$$

$$y \approx 25.6$$

19)



$$\tan 48^\circ = \frac{x}{4.5}$$

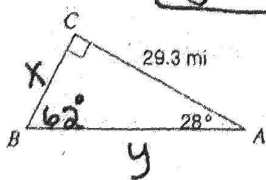
$$4.5(\tan 48^\circ) = x$$

$$x \approx 5$$

$$y^2 = 45.25$$

$$y \approx 6.7$$

21)

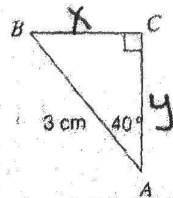


$$\tan 28^\circ = \frac{x}{29.3}$$

$$29.3(\tan 28^\circ) = x$$

$$x \approx 15.6$$

23)



$$y^2 = 1101.85$$

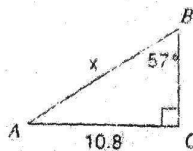
$$y \approx 33.2$$

$$\sin 40^\circ = \frac{x}{3}$$

$$3(\sin 40^\circ) = x$$

$$x \approx 1.9$$

14)

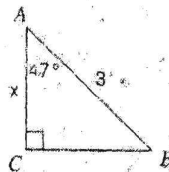


$$\sin 57^\circ = \frac{10.8}{x}$$

$$x = \frac{10.8}{\sin 57^\circ}$$

$$x \approx 12.9$$

16)

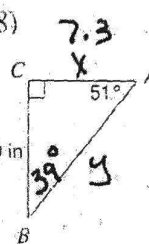


$$\cos 47^\circ = \frac{x}{3}$$

$$3(\cos 47^\circ) = x$$

$$x \approx 2$$

18)



$$\tan 39^\circ = \frac{x}{9}$$

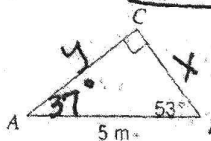
$$9(\tan 39^\circ) = x$$

$$x \approx 7.3$$

$$y^2 = 134.29$$

$$y \approx 11.6$$

20)



$$\sin 37^\circ = \frac{x}{5}$$

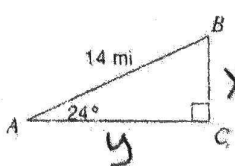
$$5(\sin 37^\circ) = x$$

$$x \approx 3$$

$$y^2 = 16$$

$$y = 4$$

22)

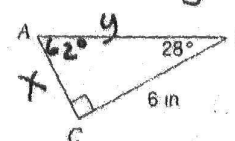


$$\sin 24^\circ = \frac{x}{14}$$

$$14(\sin 24^\circ) = x$$

$$x \approx 5.7$$

24)



$$y^2 = 163.51 \quad y \approx 12.8$$

$$\tan 28^\circ = \frac{x}{6}$$

$$6(\tan 28^\circ) = x$$

$$x \approx 3.2$$

$$y^2 = 46.24$$

$$y \approx 6.8$$