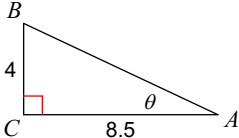
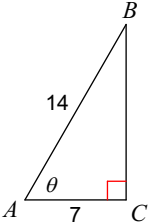
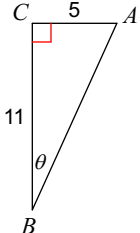


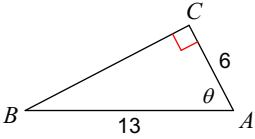
Unit 2: Right Triangle Trigonometry

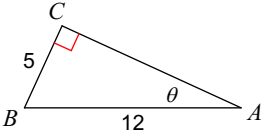
Find the measure of each angle indicated. Round to the nearest tenth.

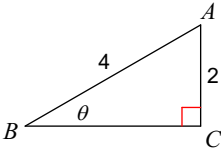
1) 
 A) 25.2° B) 23.9°
 C) 28.1° D) 31.6°

2) 
 A) 52.8° B) 61.4°
 C) 60° D) 45.1°

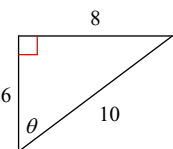
3) 
 A) 28.3° B) 24.4°
 C) 22.2° D) 23.9°

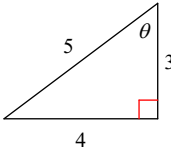
4) 
 A) 56.1° B) 62.5°
 C) 66.5° D) 45.2°

5) 
 A) 20.8° B) 24°
 C) 24.6° D) 30.9°

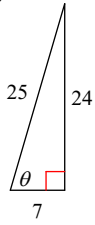
6) 
 A) 22.9° B) 30°
 C) 34.4° D) 21.3°

Find the value of the trig function indicated.

7) $\cos \theta$

 A) $\frac{17}{8}$ B) $\frac{3}{5}$
 C) 1 D) $\frac{3}{4}$

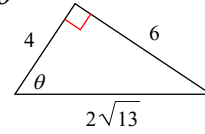
8) $\sin \theta$

 A) $\frac{4}{3}$ B) $\frac{3}{4}$
 C) $\frac{3}{5}$ D) $\frac{4}{5}$

9) $\cos \theta$



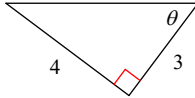
- A) $\frac{7}{25}$ B) $\frac{10}{11}$
 C) $\frac{24}{25}$ D) $\frac{\sqrt{2}}{2}$

10) $\tan \theta$



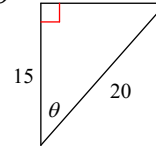
- A) $\frac{\sqrt{13}}{3}$ B) $\frac{2\sqrt{13}}{13}$
 C) $\frac{7}{25}$ D) $\frac{3}{2}$

11) $\cos \theta$



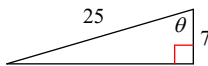
- A) $\frac{3}{5}$ B) $\frac{5}{4}$
 C) $\frac{3}{4}$ D) $\frac{4}{5}$

12) $\sin \theta$



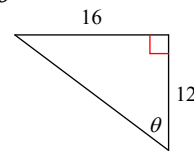
- A) $\frac{3}{4}$ B) $\frac{\sqrt{7}}{4}$
 C) $\frac{4\sqrt{7}}{7}$ D) $\frac{11}{3}$

13) $\sin \theta$



- A) $\frac{7}{25}$ B) $\frac{24}{25}$
 C) $\frac{5}{4}$ D) $\frac{25}{24}$

14) $\tan \theta$



- A) $\frac{2\sqrt{3}}{3}$ B) $\frac{4}{5}$
 C) $\frac{4}{3}$ D) $\frac{2\sqrt{5}}{5}$

In each triangle ABC, angle C is a right angle. Find the value of the trig function indicated.

15) Find $\cos A$ if $c = 25$, $a = 24$

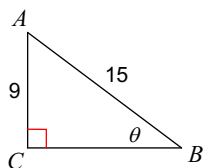
- A) $\frac{4}{5}$ B) $\frac{25}{24}$
 C) $\frac{7}{25}$ D) $\frac{25}{7}$

16) Find $\cos A$ if $c = 15$, $a = 12$

- A) $\frac{3}{5}$ B) $\frac{4}{3}$
 C) $\frac{4}{5}$ D) $\frac{3}{4}$

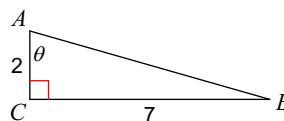
Find the measure of each angle indicated. Round to the nearest tenth.

17)



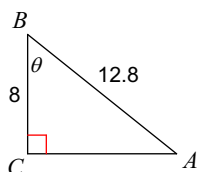
- A) 30.5° B) 39.8°
 C) 36.9° D) 45.4°

18)



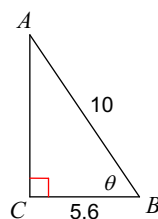
- A) 74.1° B) 66.1°
 C) 67.2° D) 59.1°

19)



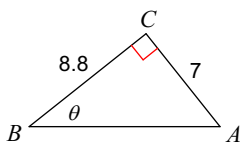
- A) 51.3° B) 48.9°
 C) 54.2° D) 50.7°

20)



- A) 68.4° B) 41.1°
 C) 45° D) 55.9°

21)



- A) 39.9° B) 29.2°
 C) 38.5° D) 30.9°

22)



- A) 57.8° B) 49.6°
 C) 71.5° D) 70.3°

In each problem, angle C is a right angle. Find the angle indicated to the nearest tenth.

23) Find $m\angle B$ if $a = 11.7$, $b = 13$

- A) 51.8° B) 48°
 C) 59.6° D) 61.4°

24) Find $m\angle B$ if $a = 15$, $b = 10$

- A) 33.7° B) 40.6°
 C) 42.2° D) 25.3°

25) Find $m\angle B$ if $b = 13$, $a = 16$

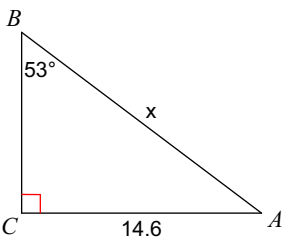
- A) 42.8° B) 36.8°
 C) 46.2° D) 39.1°

26) Find $m\angle A$ if $b = 8$, $c = 15$

- A) 74.5° B) 57.8°
 C) 72.7° D) 58.2°

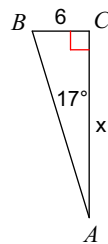
Find the measure of each side indicated. Round to the nearest tenth.

27)



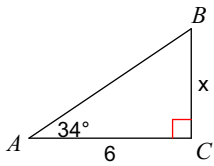
- A) 23.5 B) 16.4
C) 15.9 D) 18.3

28)



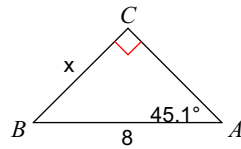
- A) 19.3 B) 14.4
C) 19.6 D) 18.5

29)



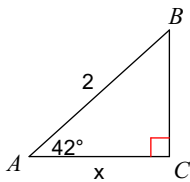
- A) 4.4 B) 4.6
C) 5 D) 4

30)



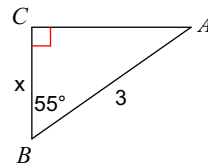
- A) 6.1 B) 5.7
C) 7.1 D) 6.8

31)



- A) 0.4 B) 1.5
C) 1.9 D) 0.8

32)



- A) 1.7 B) 1
C) 0.5 D) 2.1