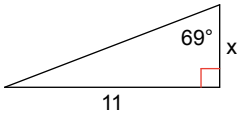


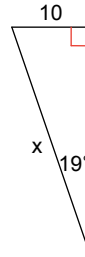
Final Review - Trigonometric Functions

Use SOH CAH TOA to find the missing side.

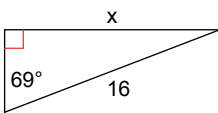
1)



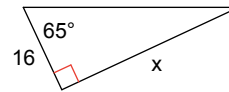
2)



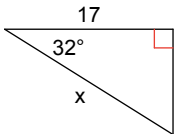
3)



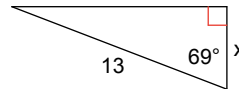
4)



5)

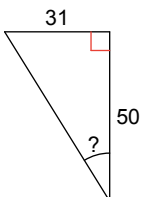


6)

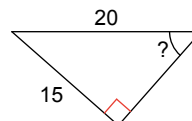


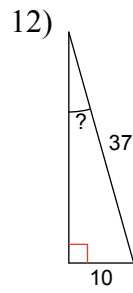
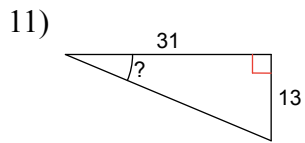
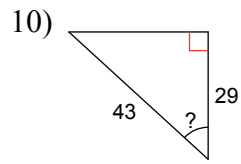
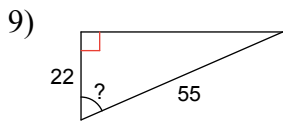
Use SOH CAH TOA to find the measure of the indicated angle.

7)



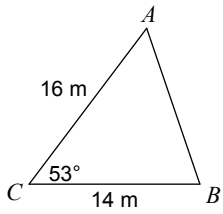
8)



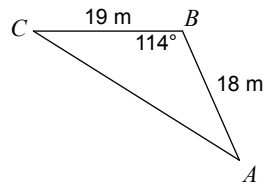


Use the Law of Cosines to find each measurement indicated.

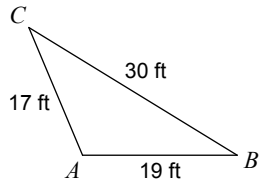
13) Find AB



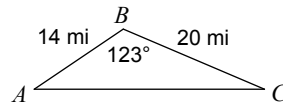
14) Find AC



15) Find $m\angle A$

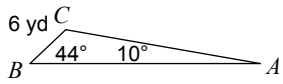


16) Find $m\angle C$

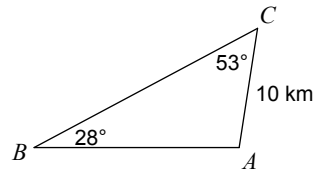


Use the Law of Sines to find each measurement indicated.

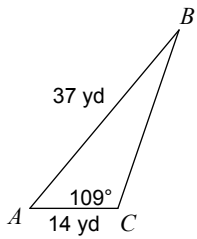
17) Find AC



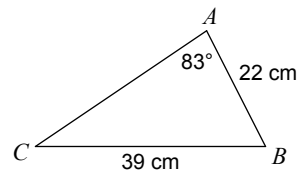
18) Find AB



19) Find $m\angle B$



20) Find $m\angle C$



Find the exact value of each trigonometric function.

21) $\tan 0^\circ$

22) $\cos \frac{3\pi}{2}$

23) $\cos \pi$

24) $\sin 0$

25) $\tan \frac{7\pi}{4}$

26) $\sin 90^\circ$

27) $\sin \frac{5\pi}{6}$

28) $\sin \frac{\pi}{4}$

29) $\cos \frac{5\pi}{3}$

30) $\tan 150^\circ$

31) $\cos \frac{5\pi}{4}$

32) $\tan \frac{3\pi}{4}$

33) $\sin 30^\circ$

34) $\cos 300^\circ$

35) $\cos 90^\circ$

36) $\tan 240^\circ$

$$37) \tan 0$$

$$38) \cos 120^\circ$$

$$39) \tan -780^\circ$$

$$40) \sin -420^\circ$$

$$41) \tan 750^\circ$$

$$42) \sin -450^\circ$$

$$43) \sin -135^\circ$$

$$44) \cos 510^\circ$$

$$45) \sin -1020^\circ$$

$$46) \sin 1020^\circ$$

$$47) \sin -765^\circ$$

$$48) \tan -\frac{5\pi}{2}$$

$$49) \sin -\frac{16\pi}{3}$$

$$50) \tan -\frac{13\pi}{3}$$

$$51) \sin -\frac{7\pi}{4}$$

$$52) \cos -\frac{8\pi}{3}$$

$$53) \cos \frac{10\pi}{3}$$

$$54) \cos \frac{15\pi}{4}$$

$$55) \tan \frac{29\pi}{6}$$

$$56) \sin \frac{19\pi}{6}$$

$$57) \sin -\frac{19\pi}{4}$$

$$58) \sec \frac{\pi}{4}$$

$$59) \sec 270^\circ$$

$$60) \cot \frac{\pi}{2}$$

$$61) \sec 120^\circ$$

$$62) \sec \frac{\pi}{2}$$

$$63) \cot \frac{\pi}{6}$$

$$64) \sec \frac{7\pi}{6}$$

$$65) \sec 30^\circ$$

$$66) \sec 45^\circ$$

$$67) \csc 0^\circ$$

$$68) \cot 315^\circ$$

Answers to Final Review - Trigonometric Functions

- | | | | |
|---------------------------|---------------------------|---------------------------|----------------------------|
| 1) 4.2 | 2) 30.7 | 3) 14.9 | 4) 34.3 |
| 5) 20.0 | 6) 4.7 | 7) 32° | 8) 49° |
| 9) 66° | 10) 48° | 11) 23° | 12) 16° |
| 13) 13.5 m | 14) 31 m | 15) 112.8° | 16) 23° |
| 17) 24 yd | 18) 17 km | 19) 21° | 20) 34° |
| 21) 0 | 22) 0 | 23) -1 | 24) 0 |
| 25) -1 | 26) 1 | 27) $\frac{1}{2}$ | 28) $\frac{\sqrt{2}}{2}$ |
| 29) $\frac{1}{2}$ | 30) $-\frac{\sqrt{3}}{3}$ | 31) $-\frac{\sqrt{2}}{2}$ | 32) -1 |
| 33) $\frac{1}{2}$ | 34) $\frac{1}{2}$ | 35) 0 | 36) $\sqrt{3}$ |
| 37) 0 | 38) $-\frac{1}{2}$ | 39) $-\sqrt{3}$ | 40) $-\frac{\sqrt{3}}{2}$ |
| 41) $\frac{\sqrt{3}}{3}$ | 42) -1 | 43) $-\frac{\sqrt{2}}{2}$ | 44) $-\frac{\sqrt{3}}{2}$ |
| 45) $\frac{\sqrt{3}}{2}$ | 46) $-\frac{\sqrt{3}}{2}$ | 47) $-\frac{\sqrt{2}}{2}$ | 48) Undefined |
| 49) $\frac{\sqrt{3}}{2}$ | 50) $-\sqrt{3}$ | 51) $\frac{\sqrt{2}}{2}$ | 52) $-\frac{1}{2}$ |
| 53) $-\frac{1}{2}$ | 54) $\frac{\sqrt{2}}{2}$ | 55) $-\frac{\sqrt{3}}{3}$ | 56) $-\frac{1}{2}$ |
| 57) $-\frac{\sqrt{2}}{2}$ | 58) $\sqrt{2}$ | 59) Undefined | 60) 0 |
| 61) -2 | 62) Undefined | 63) $\sqrt{3}$ | 64) $-\frac{2\sqrt{3}}{3}$ |
| 65) $\frac{2\sqrt{3}}{3}$ | 66) $\sqrt{2}$ | 67) Undefined | 68) -1 |