

## Trig #4

## Pre Calculus

Use a calculator to find each value. Round off to four decimal places.

1.  $\cos 64^{\circ}45'$
2.  $\tan 22^{\circ}12'$
3.  $\sin 40^{\circ}36'$
4.  $\tan 34^{\circ}23'$
5.  $\sin 17^{\circ}20'$
6.  $\cot 75^{\circ}29'$
7.  $\csc 11^{\circ}33'$
8.  $\tan 125^{\circ}37'$
9.  $\cos 145^{\circ}48'$
10.  $\sin 156^{\circ}45'$
11.  $\sec 99^{\circ}58'$
12.  $\sin 357^{\circ}24'$
13.  $\cos 400^{\circ}18'$
14.  $\tan 88^{\circ}7'$
15.  $\sec 181^{\circ}27'$

Use the radian mode to find the following to four decimal places.

16.  $\sin 1$
17.  $\cos 4$
18.  $\tan 3.2$
19.  $\cos(-3)$
20.  $\tan(-1.5)$
21.  $\sin(-7)$
22.  $\csc(-1.3)$
23.  $\cot 2$
24.  $\cos 3.14$

If  $0^{\circ} \leq \theta \leq 90^{\circ}$ , find each angle correct to the nearest minute.

25.  $\tan \theta = 0.6168$
26.  $\cos \theta = 0.3961$
27.  $\sin \theta = 0.9135$
28.  $\tan \theta = 0.2065$
29.  $\sec \theta = 1.1131$
30.  $\sin \theta = 0.3665$
31.  $\csc \theta = 1.766$
32.  $\cot \theta = 0.7177$
33.  $\cos \theta = 0.8263$

If  $0^\circ \leq \theta \leq 360^\circ$ , find each angle correct to the nearest minute.  
(There is more than one angle.)

34.  $\sin \theta = -0.7482$

35.  $\tan \theta = -0.8932$

36.  $\csc \theta = -5.582$

37.  $\cos \theta = -0.7324$

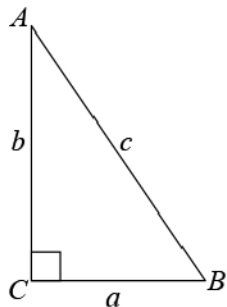
38.  $\cos \theta = 0.0766$

39.  $\cot \theta = 1.8178$

40.  $\sin \theta = -0.2715$

41.  $\tan \theta = 4.349$

Solve each of the following right triangles. Round sides to the nearest tenth and angles to the nearest minute.



42.  $a = 14 \text{ in}$ ,  $B = 62^\circ$

43.  $a = 35 \text{ yd}$ ,  $A = 48^\circ$

44.  $c = 75'$ ,  $b = 45'$

45.  $b = 635 \text{ cm}$ ,  $a = 446 \text{ cm}$

46.  $A = 61^\circ$ ,  $b = 18 \text{ in}$

47.  $B = 62^\circ 30'$ ,  $c = 30 \text{ ft}$

48.  $A = 35^\circ 40'$ ,  $c = 20 \text{ m}$

49.  $B = 72^\circ 36'$ ,  $a = 3420 \text{ ft}$

50.  $A = 43^\circ 42'$ ,  $a = 16.42 \text{ cm}$

51.  $B = 62^\circ 53'$ ,  $c = 74.37 \text{ m}$