PMath 10 - Mr. Duncan   Name_____

Sine, Cosine, and Tangent Practice

**Find the value of each trigonometric ratio. Express your answer as a fraction in lowest terms.**

1) $\sin C$

2) $\sin C$

3) $\cos C$

4) $\cos C$

5) $\tan A$

6) $\tan X$

17°44'10"

TI-84 Plus Silver Edition
TEXAS INSTRUMENTS

17°44'10"

Show Key Press History ▲
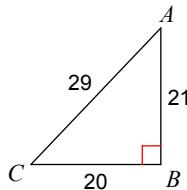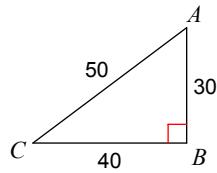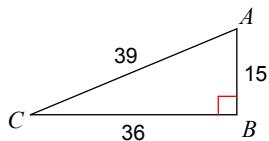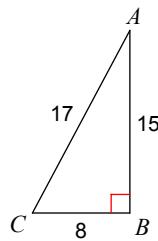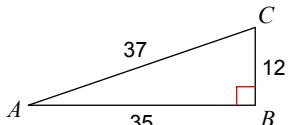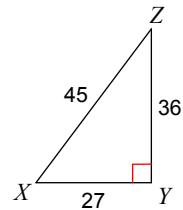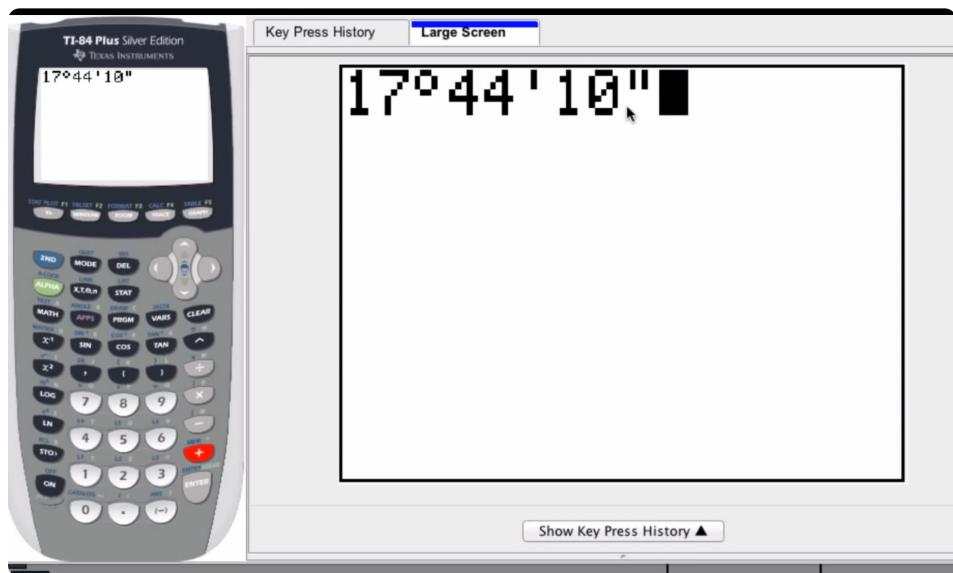
DEGREES ˚

MINUTES '

SECONDS "

60 MINUTES = 1 DEGREE 60' = 1˚

60 SECONDS = 1 MINUTE 60" = 1'

To put the calculator into degree mode

MODE

RADIAN **DEGREE**

ANGLE section of the calculator

2ⁿᵈ APPS

1: ˚ ← degrees

2: ' ← minutes

To do seconds on the calculator

ALPHA + (")

1) Find **Sin 30˚**

Cos 45˚32'

Tan 23˚15'22"

To convert to degrees, minutes, and seconds,

ANGLE Menu

4: DMS

2) Turn 45.65˚ into degrees, minutes, and seconds

DO NOW

Find the exact value on your calculator to 4 decimal places:

       a) cos 60˚ + sin 45˚

       b) (tan 45˚)(sin 45˚)(cos 45˚)

       c) cos 14˚ 13' 42"
            sin 14˚ 32"
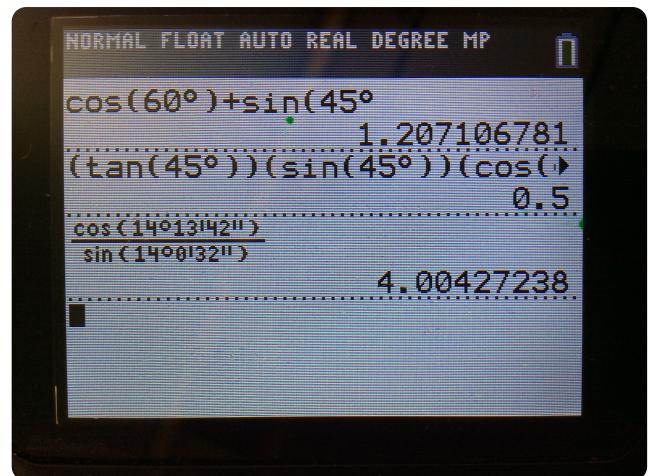
Find the value of each trigonometric ratio to the nearest ten-thousandth.

7) sin 62° 14' 22"
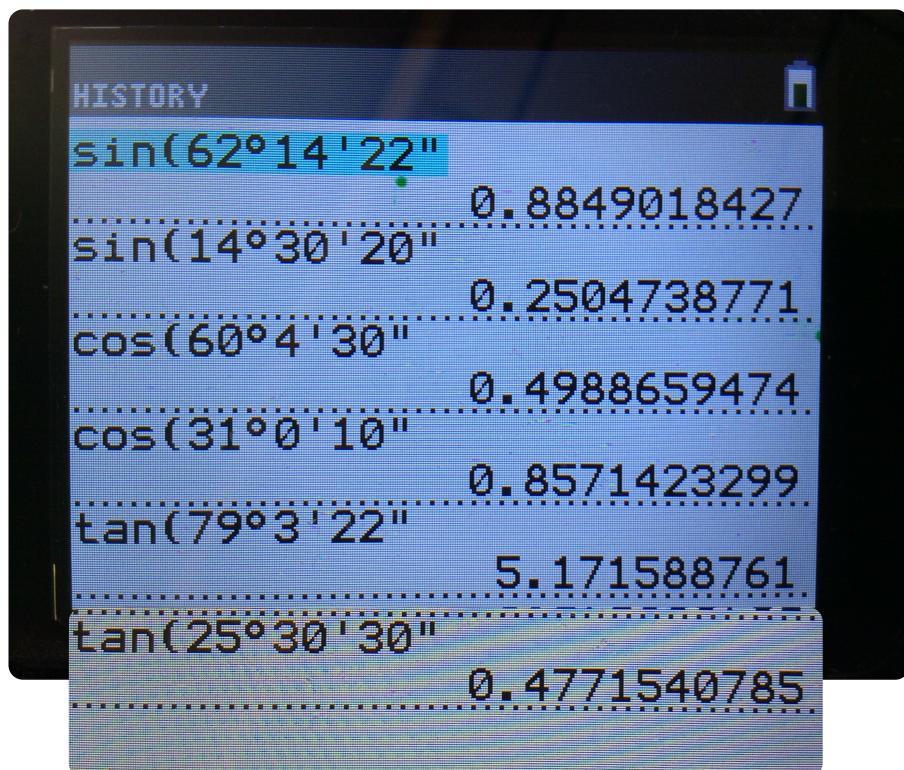
8) sin 14° 30' 20"

9) cos 60° 4' 30"

10) cos 31° 10"

11) tan 79° 3' 22"

12) tan 25° 30' 30"

HISTORY

sin(62°14'22"
                    0.8849018427
sin(14°30'20"
                    0.2504738771
cos(60°4'30"
                    0.4988659474
cos(31°0'10"
                    0.8571423299
tan(79°3'22"
                    5.171588761
tan(25°30'30"
                    0.4771540785

26) sin A = 0.4540

27) cos Y = 0.5736

28) cos B = 0.5000

29) tan B = 0.6249

30) tan C = 0.1405

Find each angle measure to the nearest minute.

25) sin X = 0.7547

26) sin A = 0.4540

27) cos Y = 0.5736

28) cos B = 0.5000

29) tan B = 0.6249

30) tan C = 0.1405

NORMAL FLOAT AUTO REAL DEGREE MP

sin⁻¹(.7547
                    48.99916333
Ans▶DMS
                    48°59'56.988"
sin⁻¹(.4540
                    27.00061091
Ans▶DMS
                    27°0'2.199"

NORMAL FLOAT AUTO REAL DEGREE MP

cos⁻¹(.5736)▶DMS
                    54°59'54.067"
cos⁻¹(.5)▶DMS
                    60°0'0"

NORMAL FLOAT AUTO REAL DEGREE MP

tan⁻¹(.6249)▶DMS
                    32°0'4.546"
tan⁻¹(.1405)▶DMS
                    7°59'51.74"