



Calculator Guide

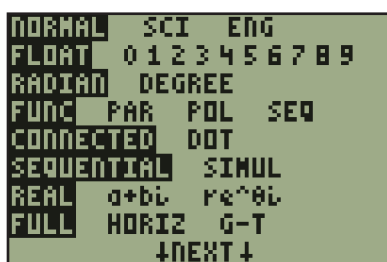
TI-83/84 Skills

Lesson 4.2: Trigonometric Ratios for Any Angle

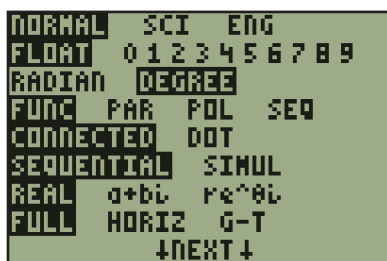
Mode Setting

A MODE setting will determine the output of your calculator, so it is important to check the settings before using the trigonometry features of the calculator. Note that if your calculator is reset (for example for exams), you will have to change the MODE to DEGREE.

Changing to Degree



- Press [MODE]

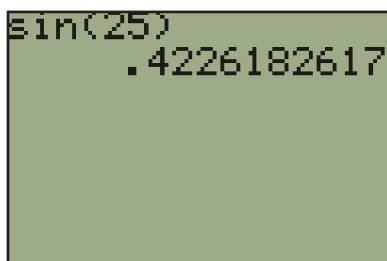


- Press the down arrow until blinking is on Radian
- Press the right arrow until blinking is on Degree
- Press [ENTER]
- Press [2nd] [MODE] to exit

Primary Trigonometric Ratios

[SIN] (sine), [COS] (cosine), and [TAN] (tangent) are the primary trigonometric ratios. Be sure to check MODE to ensure that you are in degree mode.

Evaluate $\sin 25^\circ$.



- Press [SIN]
- Press [2] [5] [)]
- Press [ENTER]

Inverse Trigonometric Relationships

The inverse trigonometric relationships \sin^{-1} , \cos^{-1} , and \tan^{-1} , are built into your calculator and used to determine the angle, given a trigonometric ratio. Remember to check MODE to ensure that you are in degree mode.

Evaluate θ when $\theta = 0.5$.



- Press [2nd] [SIN]
- Press [0] [.] [5] [)]
- Press [ENTER]

**Appendix 2: Solutions****Lesson 4.1: Angles in Standard Position****Practice Solutions – I**

1. Use a protractor to sketch the following angles in standard position.

- a. 125°

