**Topic**: Trig functions of real numbers

**Question**: Evaluate cos(1.25), rounded to four decimal places.

# **Answer choices:**

**A** 0.9490

B 0.3

**C** 0.3153

D 0.9998



# **Solution**: C

We'll use a calculator to evaluate the cosine function at 1.25, making sure the calculator is set to radian mode.

$$\cos(1.25) \approx 0.3153$$



**Topic**: Trig functions of real numbers

**Question**: Evaluate  $\csc(0.87)$ , rounded to four decimal places.

# **Answer choices:**

**A** 1.3084

B 0.7643

C 0.0152

D 65.7895



### Solution: A

We'll use a calculator to evaluate the circular function at 0.87, making sure the calculator is set to radian mode.

$$\csc \theta = \frac{1}{\sin \theta}$$

$$\csc(0.87) = \frac{1}{0.7643}$$

$$\csc(0.87) = \approx 1.3084$$



**Topic**: Trig functions of real numbers

**Question**: Evaluate tan(2.78), rounded to three decimal places.

# **Answer choices:**

**A** 0.379

B 0.354

C -0.379

D -0.935

### **Solution**: C

We'll use a calculator to evaluate the tangent function at 2.78, making sure the calculator is set to radian mode.

$$\tan \theta = \frac{\sin \theta}{\cos \theta}$$

$$\tan(2.78) = \frac{0.354}{-0.935}$$

$$\tan(2.78) = \approx -0.379$$

