

Name : \_\_\_\_\_

## Evaluate - Trigonometric Ratios

Using Calculator: S1

Evaluate each expression. Round your answer to four decimal places.

1)  $\frac{\sin^2 74^\circ - \tan^3 43^\circ}{9}$

2)  $\frac{\csc \frac{\pi}{10} \cos \frac{7\pi}{36} \sec \frac{7\pi}{36}}{8 \cos \frac{\pi}{15} + \tan \frac{\pi}{10}}$

3)  $\cos^2 55^\circ + \tan^2 84^\circ + \cot^2 92^\circ$

4)  $6.8 \csc 11^\circ (\sec 36^\circ + \cos 78^\circ)$

5)  $3.3 - 4 \cot \frac{5\pi}{36}$

6)  $\csc 9^\circ + \frac{10}{\sec 138^\circ}$

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## Answer key

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Evaluate each expression. Round your answer to four decimal places.

1)  $\frac{\sin^2 74^\circ - \tan^3 43^\circ}{9}$

**0.0126**

2)  $\frac{\csc \frac{\pi}{10} \cos \frac{7\pi}{36} \sec \frac{7\pi}{36}}{8 \cos \frac{\pi}{15} + \tan \frac{\pi}{10}}$

**0.3971**

3)  $\cos^2 55^\circ + \tan^2 84^\circ + \cot^2 92^\circ$

**90.8533**

4)  $6.8 \csc 11^\circ (\sec 36^\circ + \cos 78^\circ)$

**51.4602**

5)  $3.3 - 4 \cot \frac{5\pi}{36}$

**-5.278**

6)  $\csc 9^\circ + \frac{10}{\sec 138^\circ}$

**-1.039**