

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

Evaluate - Trigonometric Ratios

Using Calculator: S1

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

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

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