Name : _____

Sheet 1

Evaluate

Evaluate each expression using allied angles.

1) $\cot \frac{21\pi}{4} \sec \frac{37\pi}{6}$

2) $12 \cos^2 1035^0 \cot^2 630^0$

3) $\frac{\cos 330^0 \cos}{3 \sin 240^0 \text{ ta}}$ $2 \sec^2 \frac{11\pi}{4}$

5) $3 + \sin \frac{9\pi}{4} - \text{s}$ $\frac{945^0}{^0) - \csc 390^0}$

Name : _____

Answer key

Sheet 1

Evaluate

Evaluate each expression using allied angles.

1) $\cot \frac{21\pi}{4} \sec \frac{37\pi}{6}$

2) $12 \cos^2 1035^0 \cot^2 630^0$

$\frac{2\sqrt{3}}{3}$

3) $\frac{\cos 330^0 \cos}{3 \sin 240^0 \tan}$ $2 \sec^2 \frac{11\pi}{4}$

$\frac{1}{2}$

5) $3 + \sin \frac{9\pi}{4} - \sin$ $\frac{945^0}{^0) - \csc 390^0}$

$\frac{10 + \sqrt{2}}{2}$

$\frac{\sqrt{2} - 1}{2}$