

(1) [3 points] Compute $2 \sin\left(\frac{\pi}{3}\right) - 3 \tan\left(\frac{\pi}{3}\right)$.

(2) [4 points] Compute $\sin(405^\circ)$, $\cos(405^\circ)$ and $\tan(405^\circ)$.

(3) [4 points] Compute $\sec(\theta)$ if $\sin(\theta) = \frac{12}{13}$ and θ is in Quadrant II.

(4) [4 points] Determine the exact value of $\sin\left(-\frac{\pi}{12}\right) \csc\left(\frac{25\pi}{12}\right)$.