

Name : _____ ID. # : _____ SER. # : _____

1. Solve the equation $3^x + 3^{-x} = 3$ (4 pts)

2. If $\tan \theta = -\frac{3}{4}$, $\cos \theta < 0$, then find the value of $\csc \theta + \sec \theta$ (2 pts)

3. (a) Find the value of: $\csc(210^\circ) + \cot(-945^\circ)$ (4 pts)

(b) Find all values of θ , $0^\circ < \theta < 360^\circ$, that satisfies $\sec \theta = -2$, $\tan \theta > 0$.