

1. Convert the angle
- $315^\circ$
- to radians.

$$315\left(\frac{\pi}{180}\right) = \frac{35\pi}{20} = \boxed{\frac{7\pi}{4}}$$

2. Evaluate
- $\sec^{-1}(\sec(\frac{11\pi}{6}))$
- :

$$\begin{array}{ccc} \downarrow & \downarrow & \downarrow \\ 0 & 1 & -\frac{1}{2} \end{array}$$

$$\sec^{-1}(-1) = \boxed{\frac{3\pi}{2}}$$

3. Prove the following identity:
- $\cos^2 \theta \tan \theta + \cos \theta \cot \theta = \cos \theta$

$$\begin{aligned} & \cos^2 \theta \tan \theta + \cos \theta \cot \theta \\ = & \sin \theta + \frac{\cos^2 \theta}{\sin \theta} = \frac{\sin^2 \theta + \cos^2 \theta}{\sin \theta} = \frac{1}{\sin \theta} = \csc \theta \checkmark \end{aligned}$$

4. Prove the trig identity:
- $\sin^2 \theta \cos^2 \theta + \cos^2 \theta \sin^2 \theta = 1$

$$\frac{\sin^2 \theta}{\cos^2 \theta} \cos^2 \theta + \frac{\cos^2 \theta}{\sin^2 \theta} \sin^2 \theta = \sin^2 \theta + \cos^2 \theta = 1 \checkmark$$

# Algebra 2 With Trig Final Exam

**New York University**



## Algebra 2 With Trig Final Exam:

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