Identities:
Pick one side and turn it into the other. Turn the complex side into the simple side.

Always my first step:
- Switch everything to sines and cosines.

Usually:
- If anything is a fraction, use common denominators to make one fraction.

Helpful:
- If anything is squared $\sin^2 x + \cos^2 x = 1$ is in your future
- If there are negative signs on the angles, use negative identities
- Do not avoid distributing and expanding expressions no matter how complex and ugly.
- If there are fractions and you see how to turn either top or bottom into something you want by multiplication, then multiply both numerator and denominator by that value.

Big trick: Conjugate/difference of squares
- $1-\sin^2\theta=(1-\sin\theta)(1+\sin\theta)=\cos^2\theta$
– Multiply by the conjugate

$$\frac{1-\cos\theta}{\sin^2\theta} * \frac{1+\cos\theta}{1+\cos\theta} = \frac{1-\cos^2\theta}{\sin^2\theta(1+\cos\theta)} = \frac{\sin^2\theta}{\sin^2\theta(1+\cos\theta)} = \frac{1}{1+\cos\theta}$$