

### Simplify so the Expression is no Longer a Fraction

- If one fraction with 1 term in the denominator, multiply by the reciprocal
- If one fraction, multiply entire denominator and simplify

$$\frac{a+bi}{a-bi}$$

$$\frac{1+\sin x}{1-\sin x}$$

$$\frac{1+\sin x}{1-\sin x} = \frac{1+\sin x}{1-\sin x} \cdot \frac{1+\sin x}{1+\sin x}$$

$$= \frac{1+\sin x}{1-\sin^2 x}$$

$$= \frac{1+\sin x}{1-\cos^2 x}$$

$$\frac{\sin^2 x + \cos^2 x = 1}{-\cos^2 x - \cos^2 x}$$

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

$$= \frac{1}{\cos^2 x} - \frac{\sin x}{\cos^2 x} = \sec^2 x - \frac{\sin x}{\cos x \cos x}$$

$$= \sec^2 x - \frac{\sin x}{\cos x} \cdot \frac{1}{\cos x} = \sec^2 x - \tan x \sec x$$

$$\frac{1+\sin x}{1-\sin x}$$

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

$$= \frac{\cos^2 x (1+\sin x)}{1-\sin^2 x} \quad \frac{\sin^2 x + \cos^2 x = 1}{-\cos^2 x - \cos^2 x}$$

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

$$= \frac{\cos^2 x (1+\sin x)}{\cos^2 x} = 1+\sin x$$

$$\frac{1+\sin \theta}{1-\sin \theta} = \frac{1+\sin \theta}{1-\sin \theta} \cdot \frac{1+\sin \theta}{1+\sin \theta}$$

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

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

$$= \frac{1}{\sin \theta} = \csc \theta$$

$$\frac{1+\sin x}{1-\sin x} = \frac{1+\sin x}{1-\sin x} \cdot \frac{1+\sin x}{1+\sin x}$$

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

$$= \frac{2}{1-\sin^2 x - \sin^2 x - \sin^2 x} = \frac{2}{1-\sin^2 x}$$

$$= \frac{2}{\cos^2 x} = 2 \sec^2 x$$

$$\frac{\sin^2 x + \cos^2 x = 1}{-\sin^2 x - \sin^2 x}$$

# Analytical Trigonometry

**C Cleary**



## **Analytical Trigonometry:**

## **Analytical Trigonometry** Book Review: Unveiling the Power of Words

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