

TRIGONOMETRIC IDENTITIES

Equation: a statement that two expressions are equal for certain values of the variable. eg. $2x^2 + 3 = 11$

Identity: an equation that is true for every value of the variable. eg. $\cos^2 \theta + \sin^2 \theta = 1$

Verify Identities

... verify is not the same as prove!

Algebraically

Verify for certain values...

$$\begin{aligned} \text{eg. } \tan \theta &= \frac{\sin \theta}{\cos \theta} \quad \text{for } \theta = \frac{\pi}{4} \\ \tan \frac{\pi}{4} &= \frac{\sin \frac{\pi}{4}}{\cos \frac{\pi}{4}} \\ 1 &= \frac{\frac{\sqrt{2}}{2}}{\frac{\sqrt{2}}{2}} \\ 1 &= 1 \end{aligned}$$

Graphically

$$Y_1 = 15 \quad Y_2 = 15$$



L1: 5, 6, 8, 13
L2: 6, 12ab
Verifying Harder!

Prove Identities

Algebraically prove for all possible values...

$$\begin{aligned} \text{eg. Prove } \sin^2 \theta + \cos^2 \theta &= 1 \\ \sin^2 \theta + \cos^2 \theta &= 1 \\ \sin^2 \theta + \cos^2 \theta &= 1 \end{aligned}$$

Strategies

- Use known identities from Quizzes
- Write everything as sine and cosine
- +/- fractions (Common Denominator)
- $\frac{A}{B} = \frac{A}{B} \cdot \frac{C}{C}$
- Factor / Expand
- Multiply by conjugate

L1: 3, 4, 7, 10-12, 14, 16
L2: 5, 7, 10, 15, 18
L3: 1-3, 10-18

Trigonometric Rules: Unit Circle / Radian Measure

Exact Values of Trig Ratios

Use sum, difference and double angle identities to determine exact values.

$$\begin{aligned} \text{eg. } \sin(15^\circ) &= \sin(45^\circ - 30^\circ) \\ &= \sin 45^\circ \cos 30^\circ - \cos 45^\circ \sin 30^\circ \\ &= \left(\frac{\sqrt{2}}{2}\right)\left(\frac{\sqrt{3}}{2}\right) - \left(\frac{1}{\sqrt{2}}\right)\left(\frac{1}{2}\right) \\ &= \frac{\sqrt{6} - \sqrt{2}}{4} \end{aligned}$$

$$\text{eg. } \cos(30^\circ) = \frac{\sqrt{3}}{2} \quad \text{if } \sin \theta = \frac{3}{5} \Rightarrow \frac{\text{opposite}}{\text{hypotenuse}}$$

L2: 8, 11, 17, 19, 20

Non-Removable Values

Consider: ① Division by 0

② Trig Functions with Restrictions
($\tan \theta$, $\sec \theta$, $\csc \theta$, $\cot \theta$)

L1: 1, 2 + 7's throughout chapter

Kuta Basic Identities

Lei Shi



Kuta Basic Identities:

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