

## 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

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



6.1: 5, 6, 8, 13  
6.2: 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

- ① Use known identities from Quizzes
- ② Write everything as sine and cosine
- ③ +/- fractions (Common Denominator)
- ④  $\frac{A}{B} = \frac{A}{B} \cdot \frac{C}{C}$
- ⑤ Factor / Expand
- ⑥ Multiply by conjugate

6.1: 3, 4, 7, 10-12, 14, 16  
6.2: 5, 7, 10, 15, 16  
6.3: 1-3, 10-18

Trigonometric Rules: Right / Non-right

### Exact Values of Trig Ratios

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

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

$$\text{eg. } \cos(30^\circ) = \frac{\sqrt{3}}{2} \quad \text{if } \sin \theta = \frac{1}{2} \Rightarrow \theta = \frac{\pi}{6}$$

6.2: 8, 11, 17, 19, 20

### Non-Removable Values

Consider: ① Division by 0

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

6.1: 1, 2 + 7's throughout chapter

# Kuta Basic Identities

**Marcel A. Müller**



## **Kuta Basic Identities:**

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