

MATH 2B/5B Prep: Trigonometric Functions

Facts to Know:

Graphs of Basic Trig Functions:

- $\sin(x)$
- $\cos(x)$
- $\tan(x)$

Other Trig Functions: $\csc(x) =$ $\sec(x) =$ $\cot(x) =$

Important Identity:

Double Angle Formulas: $\sin(2x) =$ $\cos(2x) =$

Unit Circle:

Examples:

1. Show that $\tan^2(x) + 1 = \sec^2(x)$.

2. Calculate $\sin(7\pi/6)$ and $\cos(7\pi/6)$.

3. Write $\sin^2(x)$ in terms of $\cos(2x)$.