

Chapter 7 - Section 7.6 The Tangent Function

TICKET-IN-THE-DOOR

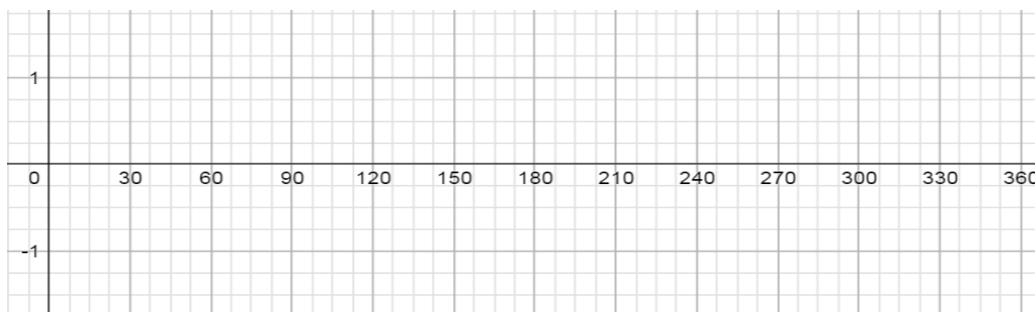
In order to be prepared for class you must watch the module and complete the following activity. This is due first thing when you get to class.

Write **domain** and **range** for the following functions:

- $y = \sin x$
- $y = \cos x$
- $y = \tan x$

Check your understanding:

1. Graph the function $y = \tan x$. Clearly label the **period** and **asymptotes**.



2. **Evaluate** without using a calculator. (Hint: Sketch the angle using the unit circle!)
 - a. $\cos 90^\circ$
 - b. $\tan 90^\circ$

c. $\cos 540^\circ$

d. $\tan(-330^\circ)$

3. Find the **slope** of the line passing through the origin at an angle $5\pi/8$. What angle is this in degrees?