

# DO NOW

⦿ Convert the following angles into radians

■  $15^\circ$

■  $80^\circ$

■  $-105^\circ$

■  $-345^\circ$

⦿ Convert the following angles into degrees

■  $\frac{7\pi}{12}$

■  $-\frac{17\pi}{10}$

■  $\frac{7\pi}{8}$

■  $-\frac{9\pi}{12}$

# DO NOW (CONT.)

⊙ Identify the quadrant in which the given angles terminate in.

■  $15^\circ$

■  $80^\circ$

■  $-105^\circ$

■  $-345^\circ$

■  $\frac{7\pi}{12}$

■  $-\frac{17\pi}{10}$

■  $\frac{7\pi}{8}$

■  $-\frac{9\pi}{12}$

# CLASS AGENDA

- ⦿ Do Now
- ⦿ Complementary and Supplementary Angles
- ⦿ Break
- ⦿ Coterminal Angles
- ⦿ Partner Practice
- ⦿ Closure

# COMPLEMENTARY AND SUPPLEMENTARY ANGLES

- ◉ What are they?
- ◉ How can we calculate them?
- ◉ Are there any restrictions?

**BREAK**

# COTERMINAL ANGLES

- ◉ Share the same initial and terminal rays.
- ◉ Are created by revolutions
  - Positive
  - Negative

# PARTNER PRACTICE

Determine positive and negative coterminal angles for the following:

■  $15^\circ$

■  $\frac{5\pi}{12}$

■  $315^\circ$

■  $-\frac{25\pi}{12}$

■  $445^\circ$

■  $-\frac{43\pi}{12}$

■  $915^\circ$

■  $-\frac{51\pi}{12}$

■  $1095^\circ$

■  $-\frac{97\pi}{12}$

# CLOSURE