Name: _____

Chapter 7 - Section 7.8 Inverse Trigonometric Functions

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.

Check your understanding:

1. **Solve** the equation for a value of θ in the first quadrant. Give your answer in both degrees and radians. (To isolate θ on the final step use the "inverse cosine function" on your calculator)
   a. $6\cos\theta - 2 = 6$
   b. $\cos\theta + 4 = 5\cos\theta + 1$

2. **Solve** $11\sin\theta - 2 = 2$ for a value of θ when $0 \le \theta \le \frac{\pi}{2}$. Give the correct answer to 3 decimal places.

3. **Solve** $5\cos(2\theta) + 7 = \cos(2\theta) + 8$ for a value of θ when $0 \le \theta \le \frac{\pi}{2}$. Give the correct answer to 3 decimal places.