**Learning Outcomes:** What should you be able to after watching the videos?

- Video 1: Angles

    - Identify the standard position of an angle on the $xy$-plane.
    - Identify coterminal angles.
    - Identify acute, obtuse, and right angles.

- Video 2: Measuring Angles

    - State the degree and radian measures of a full circle.
    - Explain the meaning of the radian measure of an angle.

- Video 3: Angle Conversions

    - Identify the common angle measures in both degrees and radians.
    - Convert angles from degrees to radians and radians to degrees using a conversion factor.

**#1)** Describe what it means for an angle to be in standard position and draw a picture of a negative angle in standard position.

**#2)** Describe what it means for two angles to be coterminal and draw an example of coterminal angles.

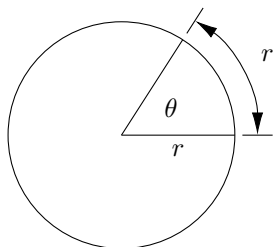**#3)** Label each angle as acute, right, or obtuse.
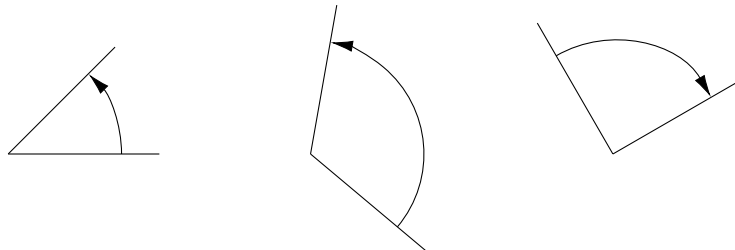


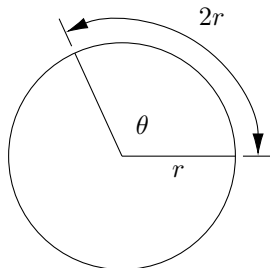**#4)** Complete the following sentences:

- The degree measure of a full circle is _____.

- The radian measure of a full circle is _____.

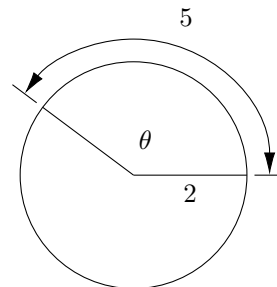**#5)**   Explain the idea of the radian measure of an angle.

**#6)**   Determine the radian measures of the given angles.

$\theta = $ _____ radians          $\theta = $ _____ radians          $\theta = $ _____ radians

(Hint: For the last one, identify the value of $r$ and compare with the previous two problems.)

**#7)**   Complete the following chart:

| Degree measure | 30° | | 60° | 90° | | 135° | | |
|---|---|---|---|---|---|---|---|---|
| Radian measure | | $\dfrac{\pi}{4}$ | | | $\dfrac{2\pi}{3}$ | | $\dfrac{5\pi}{6}$ | $\pi$ |

**#8)**   Convert $\dfrac{3\pi}{5}$ radians to degrees and $\dfrac{3\pi}{5}$ degrees to radians.

Was any aspect of any of the videos confusing or unclear? Do you have any questions?