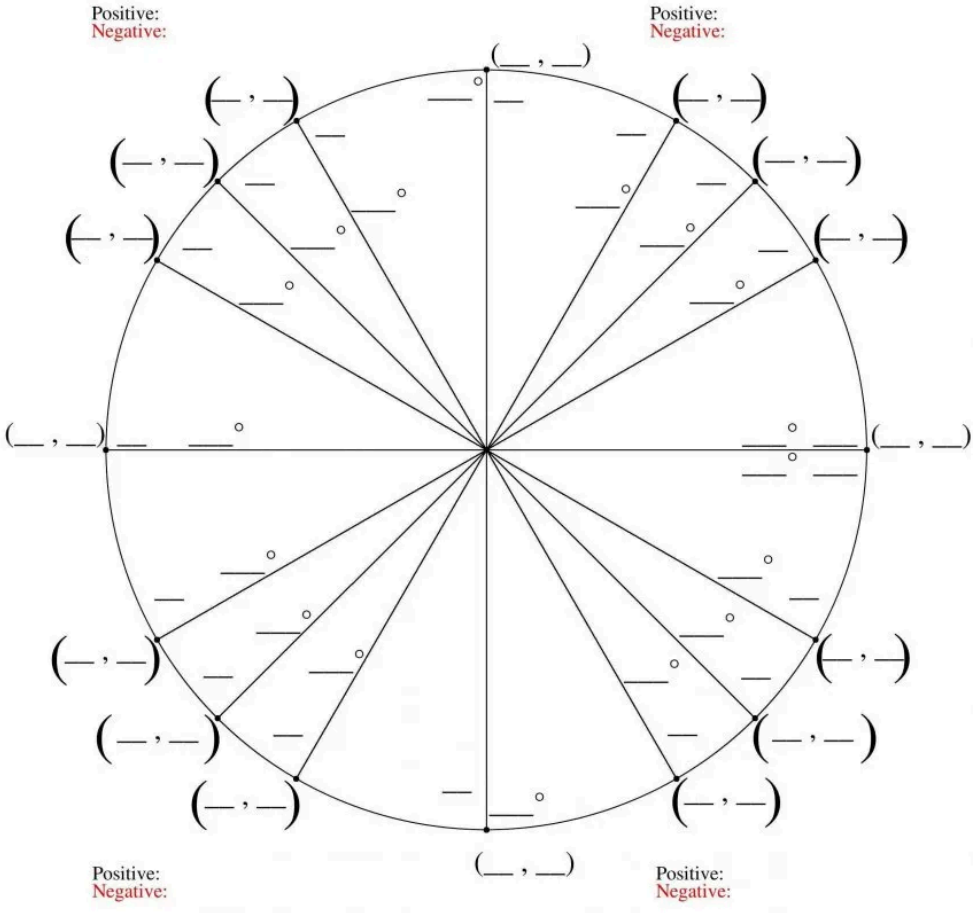
Worksheet Math 1316 -Plane Trigonometry

Unit 1 Quick Review - Unit Circle

Tips and Tricks

- Write Q1, Q2, Q3, Q4
- Positive and Negatives
- Filling in Radians trick

Fill in The Unit Circle



Unit 2 Section 3.2 -Applications of Radian Measure

Part 1: Fill in the Blank

1. One complete revolution is equal to _____ radians

2. Formula Arc Length of a Circle equation is:

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- θ must be in _____

- If the θ is given in degrees convert by _____

- Unit circle radius is _____

3. Formula of Area of a Sector

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4. Circumference equation

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Part 2: Practice Problems

Convert to Radian Measure

(a) 60° (b) 135° (c) 206°

(d) A rope is being wound around a drum with a radius 0.8725 ft. How much rope will be wound around the drum if the drum is rotated through an angle of 39.72 degrees

(e) The following digram shows a circle with a center (O) and a radius of 8cm. Points A and B lie on the circle and $\angle AOB = 80.2°$. Find the length of the arc AB