QUIZ 1 - MATH 131 Monday, January 25

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Read each problem **very carefully** before starting to solve it. Each problem is worth around 2 points. It is necessary to show **all** your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Angle θ is in standard position and measures -200°. Which quadrant is (the terminal side of) θ in? (Give a short explanation and do this for all problems to make your work more accessible to the reader!)

2. Find the measure of the positive angle of less that 360° which is coterminal with $\alpha = -100^\circ$.

3. In a short sentence tell how the unit 1 radian is defined (i.e., describe which angles measure 1 radian).

4. Convert the angle of 120° to radians. Leave your answer in exact form (fraction; not decimal).

5. On a certain circle, an arc of length 10 cm subtends a central angle measuring 2 radians. What is the length of the radius of the circle? (Do not forget to show your work, as we should always.)