MATH 12 - QUIZ TRIG PART 1 MR. BEST

Please show **all** your work for the short answer questions! Answers without supporting work will not be given full credit. Each multiple choice question is worth 2 points. Circle only one answer.

Name:_____

1. (15 points) For the following angles in degrees do each of the following:
   i) Sketch the angle in standard position
   ii) State the quadrant in which the angle terminates
   iii) State the reference angle
   iv) State any trigonometric ratio that is positive in that quadrant
   v) Convert the original angle to radians (in exact form)

   a) 210° b) -15° c) 530°

2. (15 points) For the following angles in radians do each of the following:
   i) Sketch the angle in standard position
   ii) State the quadrant in which the angle terminates
   iii) State the reference angle
   iv) State any trigonometric ratio that is positive in that quadrant
   v) Convert the original angle to degrees to two decimal places where necessary

   a) $\frac{11\pi}{6}$ b) $-\frac{5\pi}{4}$ c) 5.00

3. (3 points) An arc of a circle subtends a central angle of θ degrees. If the length of the arc is 1.2 cm and the diameter of the circle is 4 cm, Find the value of θ to the nearest degree.