INT107-2.3 Lab: Answer the following lab questions. Student Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Refer to print PR0402 drawing number CMM000250A from the text book instructor package. Answer the following questions.

Note: In this print, the geometric shape shown represents the perimeter surfaces of the Dead Bolt Locking Pawl, and the hole surface going through the part. The symbol Ø means diameter, and a capital “R” means radius.

1. What relationship exists between the circle with a diameter (Ø) of .204″ and the arc with a radius (R) of .18″?
2. How many straight line segments within the geometric shape of the view are parallel with each other?
3. True or False - The arc with the radius of .250" is tangent with an arc that has a radius of .06"?
4. True or False - The arc with a radius of .062" is tangent with an arc that has a radius of .030"?
5. One line is identified as 50° with respect to the vertical center line. What is the complementary angle that line forms with a horizontal line?
6. One line is identified as 75° with respect to a vertical line and .136″ away from a center axis. What angle do the extension lines of the .136″ dimension form with a horizontal line?
7. With respect to Question 6, what supplementary angle could have been given instead of the 75° that was specified?
8. How many acute angles are specified on the view?
9. What 3D orientation term applies to the two curved surfaces that were identified in the 2D geometry of Question 1 above?
10. What term applies to the straight line elements in the pictorial view that connect the front surface to the back surface? (Hint: The lines show where the curved surfaces turn into flat surfaces, or vice versa.)

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