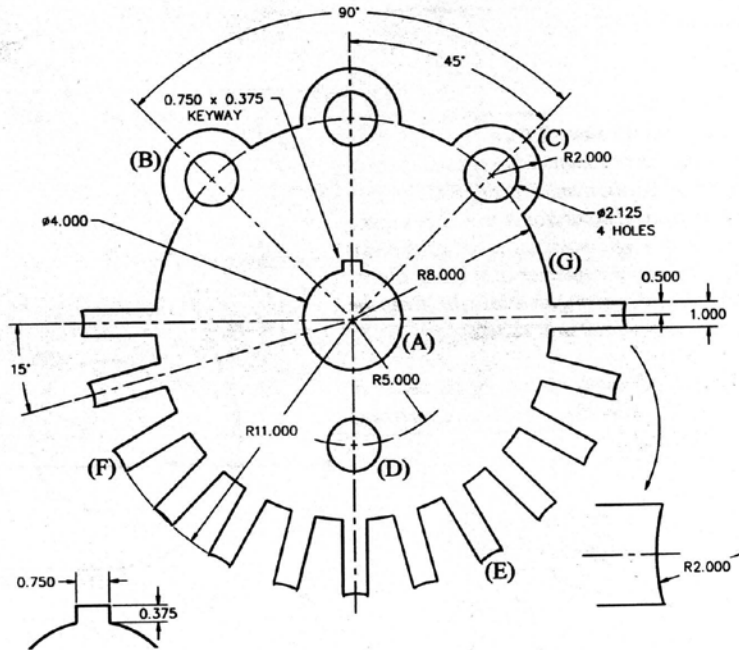


Problem 6-3
Plate1.Dwg

Directions for Plate1.Dwg

Use the Units command and set to decimal units. Set the number of digits to the right of the decimal point from 4 to 3. Be sure the system of angle measure is set to decimal degrees and the number of decimal places for the display of angles is zero (0). Accept the defaults for the remaining unit prompts. Use the Limits command and set the upper right corner of the screen area to a value of 36.000,24.000.

Begin this drawing by placing the center of the 4.000 diameter arc with keyway at coordinate (16.000,13.000).



Refer to the drawing of Plate1 above to answer the following questions:

1. The distance from the center of the 2.000 radius arc "B" to the center of the 2.000 radius arc "C" is
- (A) 10.286
 (B) 10.293
 (C) 11.300
 (D) 11.307
 (E) 11.314

2. The absolute coordinate value of the center of arc "C" is
- (A) 21.657,18.657
 (B) 21.657,18.664
 (C) 21.657,18.671
 (D) 21.657,18.678
 (E) 21.657,18.685

3. The angle formed in the X-Y plane from the center of the 2.000 radius arc "C" to the center of the 2.125 diameter hole "D" is
- (A) 242 degrees
 (B) 244 degrees
 (C) 246 degrees
 (D) 248 degrees
 (E) 250 degrees

4. The total length of arc "E" is
- (A) 0.999
 (B) 1.005
 (C) 1.011
 (D) 1.017
 (E) 1.023

5. The total length of arc "C" is
- (A) 6.766
 (B) 6.772
 (C) 6.778
 (D) 6.784
 (E) 6.790

6. The total area of Plate1 with all holes including keyway removed is
- (A) 232.259
 (B) 232.265
 (C) 232.271
 (D) 232.277
 (E) 232.283

7. The distance from the center of the 2.000 radius arc "B" to the center of the 2.000 radius arc "E" is
- (A) 20.732
 (B) 20.738
 (C) 20.744
 (D) 20.750
 (E) 20.756