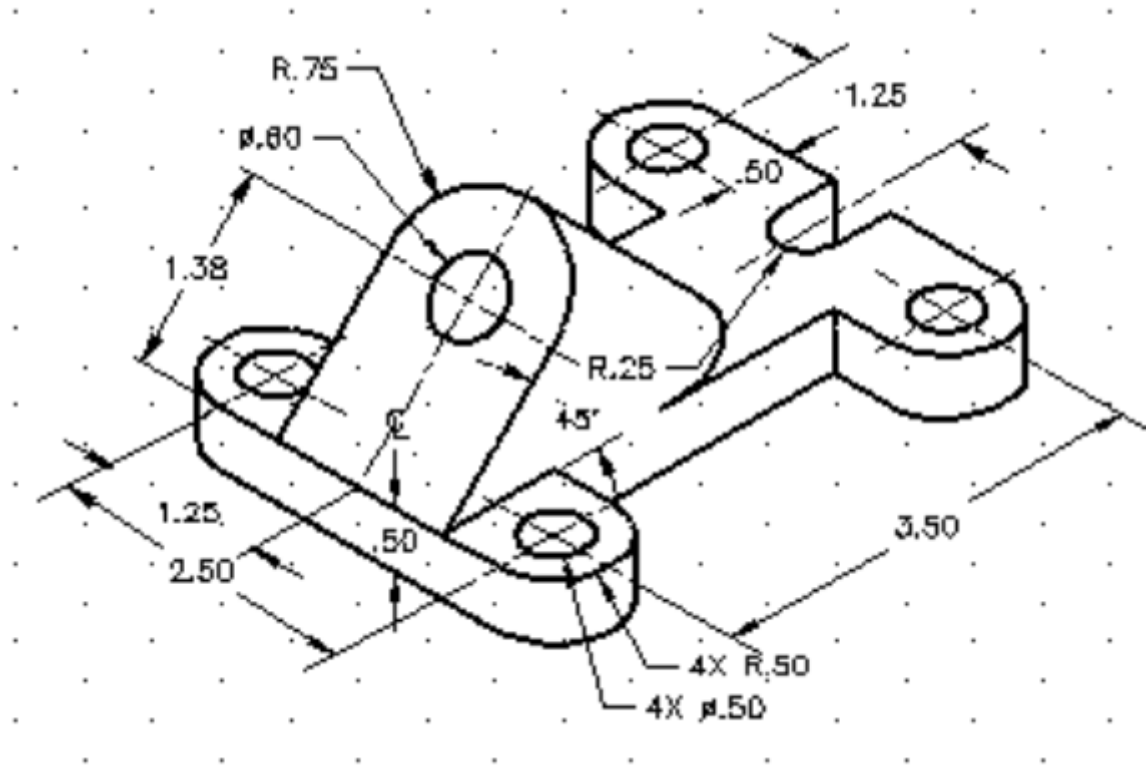
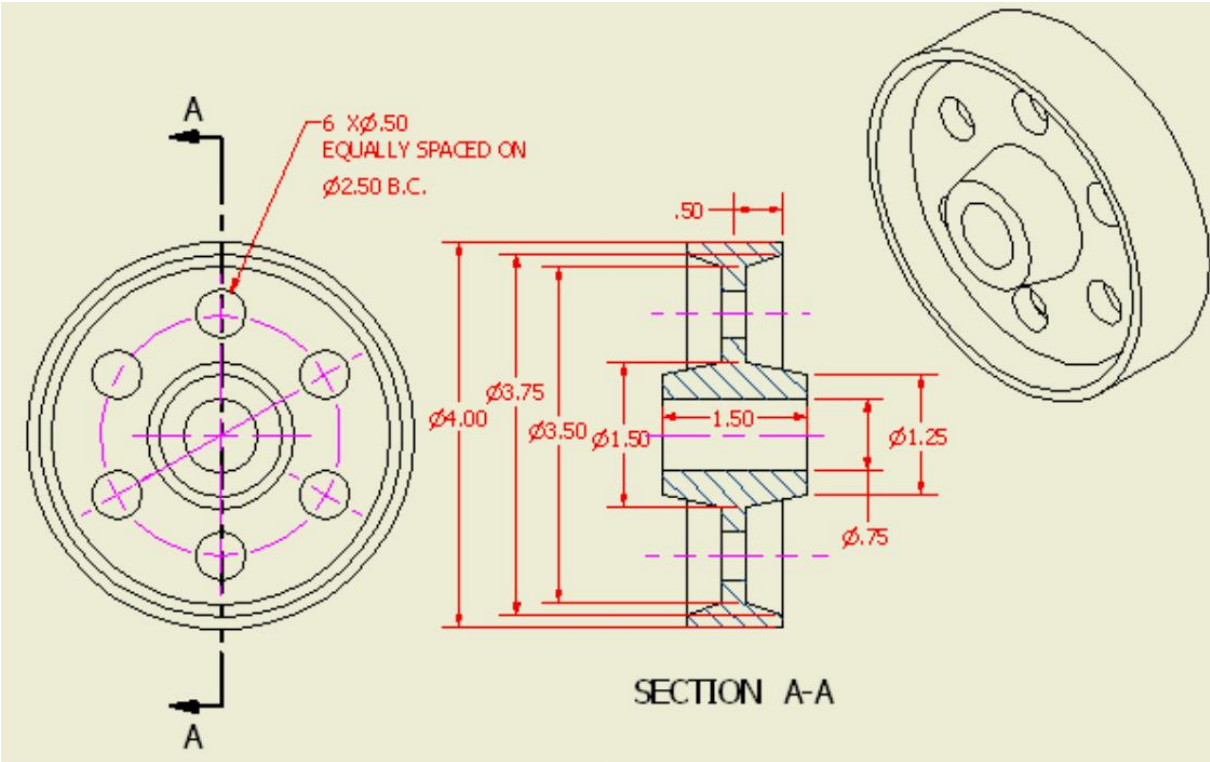


Ćwiczenia do wykonania

Zadanie 1



Zadanie 2



Zadanie 3

Sweep

Command: sweep <Enter>
Current wire frame density: ISOLINES=4
Select objects to sweep: {select the profile}1 found
Select objects to sweep: <Enter>
Select sweep path or [Alignment/Base point/Scale/Twist]: T <Enter>
Enter twist angle or allow banking for a non-planar sweep path
[Bank]<0.0000>: 270 <Enter>
Select sweep path or [Alignment/Base point/Scale/Twist]:
{select the line }

(Figure 5)



Figure 3

d. Sweeping the close shape profile with **Scale** option (Figure 4).

Command: sweep <Enter>
Current wire frame density: ISOLINES=4
Select objects to sweep: {select the circle}1 found
Select objects to sweep: <Enter>
Select sweep path or
[Alignment/Base point/Scale/Twist]: S <Enter>
Enter scale factor or [Reference]<1.0000>: .25 <Enter>
Select sweep path or
[Alignment/Base point/Scale/Twist]: {select the arc}

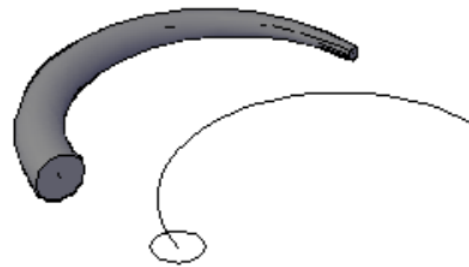


Figure 4

(Figure 5)

Loft

a. Controlling the Loft with **Cross Sections**:

Command: **c** <Enter>

CIRCLE Specify center point for circle or [3P/2P/Ttr (tan tan radius)]:

Specify radius of circle or [Diameter] <1.5000>: **1.5** <Enter>

Command:

CIRCLE Specify center point for circle or [3P/2P/Ttr (tan tan radius)]: **@0,0,3** <Enter>

Specify radius of circle or [Diameter] <1.5000>: **.5** <Enter>

Command: **polygon** <Enter>

Enter number of sides <4>: **5** <Enter>

Specify center of polygon or [Edge]: **@0,0,2** <Enter>

Enter an option [Inscribed in circle/Circumscribed about circle] <I>: <Enter>

Specify radius of circle: **1** <Enter> (Figure 1)

Command: **loft** <Enter>

Select cross-sections in lofting order: Specify opposite corner:

Select cross-sections in lofting order:

{select the large circle} 1 found

Select cross-sections in lofting order: {select the large circle}

1 found, 2 total

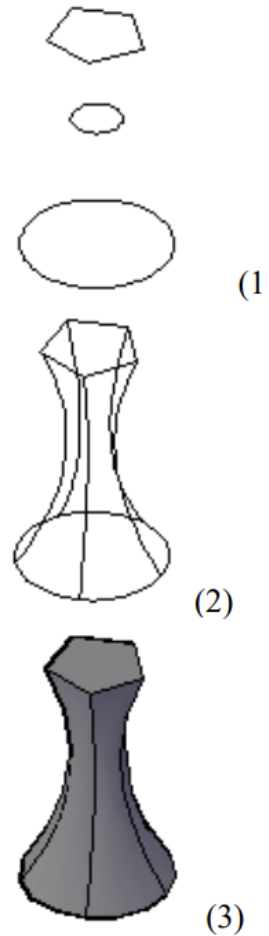
Select cross-sections in lofting order: {select the large circle}

1 found, 3 total

Select cross-sections in lofting order: <Enter>

Enter an option [Guides/Path/Cross-sections only]

<Cross-sections only>: <Enter> (Figure 2)



b. Controlling the Loft with **Guide Curves**:

Command: **loft** <Enter>

Select cross-sections in lofting order: {select the circle} 1 found

Select cross-sections in lofting order: {select the circle}

1 found, 2 total

Select cross-sections in lofting order: <Enter>

Enter an option [Guides/Path/Cross-sections only] <Cross-sections only>: **g** <Enter>

Select guide curves: {select the curve} 1 found

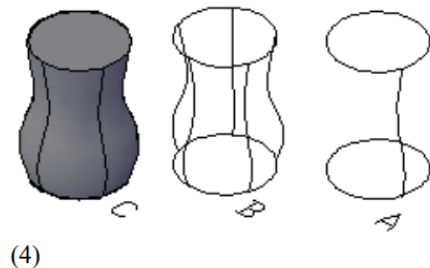
Select guide curves: {select the curve} 1 found, 2 total

Select guide curves: {select the curve} 1 found, 3 total

Select guide curves: {select the curve} 1 found, 4 total

Select guide curves: {select the curve} 1 found, 5 total

Select guide curves: <Enter>



- c. **Controlling the Loft with a Path:**
Draw the Figure 5, using the Helix for the path with an approximate size. Use the Circle, Polygon, and Point command to draw cross-sections for the loft. Make sure the path curve is intersecting with all the cross-section objects.

Command: **loft** <Enter>

Select cross-sections in lofting order: {select the end circle}1 found

Select cross-sections in lofting order: {select the end circle}1 found, 2 total

Select cross-sections in lofting order: {select the square}1 found, 3 total

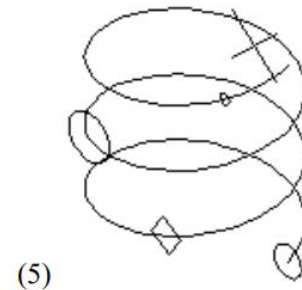
Select cross-sections in lofting order: {select the large circle in the middle}1 found, 4 total

Select cross-sections in lofting order: {select the small circle}1 found, 5 total

Select cross-sections in lofting order: <Enter>

Enter an option [Guides/Path/Cross-sections only] <Cross-sections only>: **p** <Enter>

Select path curve: {select the helix}



Źródło:

(https://www2.hcmuaf.edu.vn/data/dangnh/file/8_Parviz%20D_%20Entekhabi-AutoCAD%20Workbook3D-Hartnell%20College%20EngineeringTechnology.pdf)