|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1. Calcular y bosquejar los desarrollos del siguiente** | | | | | |
|  |  |  | **CODO EN SECCIONES** | **44** |  |
|  |  |  | **Diámetro del tubo ( D ):** | **94** | **mm** |
|  |  |  | **Radio del codo ( r ):** | **1,5** | **(D)** |
|  |  |  | **Angulo del codo (  ):** | **90** | **°** |
|  |  |  | **Secciones intermedias:** | **1** |  |
|  |  |  | **Extremos:** | **2** |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | **CODO EN SECCIONES** |  | ** \*D:** | 295,31 |
|  |  | **Diámetro del tubo:** | **94** | **:** | 22,5 |
|  |  | **Radio del codo:** | **141,0** | **h MED:** | 77,872 |
|  |  | **Angulo del codo ():** | **90** | **L:** | 311,49 |
|  |  | **Secciones intermedias:** | **1** | **h:** | 58,404 |
|  |  | **Extremos:** | **2** | **2 \*h:** | 116,81 |
|  |  |  |  | **2 \*H:** | 194,68 |

**2. Tabular las coordenadas para el trazado de la plantilla del codo.**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **# de divisiones:** | **12** |  |
|  | **Altura menor:** | **0** |  |
|  | **Diámetro** | **94** |  |
|  | **Plano inclinado:** | **0,3927** | rad |
|  | **Angulo teta** | **0,5236** | rad |
|  |  |  | ° |

|  |  |  |  |
| --- | --- | --- | --- |
| **CILINDRO TRUNCADO** | | | |
|  | **X** | **Y** |  |
| 0 | 0,00 | **0,00** |  |
| 1 | 24,61 | **2,61** |  |
| 2 | 49,22 | **9,73** |  |
| 3 | 73,83 | **19,47** |  |
| 4 | 98,44 | **29,20** |  |
| 5 | 123,05 | **36,33** |  |
| 6 | **147,65** | **38,94** |  |
| 7 | 172,26 | **36,33** |  |
| 8 | 196,87 | **29,20** |  |
| 9 | 221,48 | **19,47** |  |
| 10 | 246,09 | **9,73** |  |
| 11 | 270,70 | **2,61** |  |
| 12 | 295,31 | **0,00** |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **3. Calcular y bosquejar las piezas 4 y 5 de la TOLVA. (metodo de triangulación)** | | | | | | |
|  | Boca superior: | **120** | **x** | **120** |  |  |
|  | Boca inferior: | **94** | **x** | **94** |  |  |
|  | Altura. | **200** |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| ITEM #5 | **H** | **L4** | **a** |
|  | **262,3** | **266,48** | **94** |
|  |  |  |  |
| ITEM #4 | **L4** | **L3** | **boca sup** |
|  | **266,5** | **220,53** | **120** |