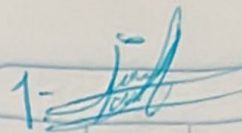
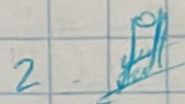


Cesar Antonio Franco Cordova REC

1- 

- ✓ B H 1.  $I_x = 8(13)^3/12 = 1.464 \text{ cm}$ ,  $I_y = 13(8)^3/12 = 5$
- ✓ 8 13
- ✓ H 10 2.  $I_x = 14(10)^3/12 = 1166.6 \text{ cm}$ ,  $I_y = 10(14)^3/12 = 228$
- ✓ 15 12
- ✓ 12 9 3.  $I_x = 15(12)^3/12 = 2160 \text{ cm}$ ,  $I_y = 12(15)^3/12 = 3375 \text{ cm}$
- ✓ 14 10
- ✓ 14 12 4.  $I_x = 12(9)^3/12 = 729 \text{ cm}$ ,  $I_y = 9(12)^3/12 = 1296 \text{ cm}$
- ✓ 11 3
5.  $I_x = 14(10)^3/12 = 1,166.6 \text{ cm}$ ,  $I_y = 10(14)^3/12 = 2,286.6 \text{ cm}$
6.  $I_x = 14(12)^3/12 = 2016 \text{ cm}$ ,  $I_y = 12(14)^3/12 = 2744 \text{ cm}$
7.  $I_x = 11(3)^3/12 = 24.75 \text{ cm}$ ,  $I_y = 3(11)^3/12 = 332.7 \text{ cm}$

Circulo

2- 

- R 1.  $I_x = 3.14(8)^4/4 = 3,215.3 \text{ cm}$
- 8 2.  $I_x = 3.14(8)^4/4 = 3,215.3 \text{ cm}$
- 8 3.  $I_x = 3.14(8)^4/4 = 3,215.3 \text{ cm}$
- 8 4.  $I_x = 3.14(4)^4/4 = 200.9 \text{ cm}$
- 4 5.  $I_x = 3.14(3)^4/4 = 63.5 \text{ cm}$
- 3 6.  $I_x = 3.14(10)^4/4 = 7850 \text{ cm}$
- 10 7.  $I_x = 3.14(7)^4/4 = 1884.7 \text{ cm}$
- 7

# Triangulo

5.

| b  | h  |                                                                                                            |
|----|----|------------------------------------------------------------------------------------------------------------|
| 15 | 10 | 1. $I_x = 15(10)^3/36 = \underline{416.6 \text{ cm}}$ $I_y = 10(15)^3/48 =$                                |
| 5  | 3  |                                                                                                            |
| 15 | 14 | 2. $I_x = 5(3)^3/36 = \underline{3.75 \text{ cm}}$ $I_y = 3(5)^3/48 = \underline{7.81 \text{ cm}}$         |
| 12 | 9  |                                                                                                            |
| 13 | 15 | 3. $I_x = 15(14)^3/36 = \underline{1,743.3 \text{ cm}}$ $I_y = 14(15)^3/48 = \underline{984.3 \text{ cm}}$ |
| 3  | 15 |                                                                                                            |
| 6  | 9  | 4. $I_x = 12(9)^3/36 = \underline{243 \text{ cm}}$ $I_y = 9(12)^3/48 = \underline{324 \text{ cm}}$         |
|    |    | 5. $I_x = 13(15)^3/36 = \underline{1218 \text{ cm}}$ $I_y = 15(13)^3/48 = \underline{686.5 \text{ cm}}$    |
|    |    | 6. $I_x = 3(15)^3/36 = \underline{281.2 \text{ cm}}$ $I_y = 15(3)^3/48 = \underline{8.43 \text{ cm}}$      |
|    |    | 7. $I_x = 6(9)^3/36 = \underline{121.5 \text{ cm}}$ $I_y = 9(6)^3/48 = \underline{40.5 \text{ cm}}$        |

Semicírculo

R

$$I_y = 3.14 (3)^4 / 8 = 31.79 \text{ cm}$$

8

$$I_y = 3.14 (8)^4 / 8 = 1607.6 \text{ cm}$$

7

$$I_y = 3.14 (7)^4 / 8 = 942.3 \text{ cm}$$

4

$$I_y = 3.14 (7)^4 / 8 = 942.3 \text{ cm}$$

$$I_y = 3.14 (3)^4 / 8 = 31.79 \text{ cm}$$

$$I_y = 3.14 (4)^4 / 8 = 100.4 \text{ cm}$$

$$I_y = 3.14 (5)^4 / 8 = 245.3 \text{ cm}$$

Cuarto

$$I_y = 0.055 (5)^4 = 34.3 \text{ cm}$$

$$I_y = 0.055 (5)^4 = 2,784.3 \text{ cm}$$

$$I_y = 0.055 (9)^4 = 360.8 \text{ cm}$$

$$I_y = 0.055 (25)^4 = 21,484.3 \text{ cm}$$

$$I_y = 0.055 (7)^4 = 132.0 \text{ cm}$$

$$I_y = 0.055 (9)^4 = 360.8 \text{ cm}$$

$$I_y = 0.055 (2)^4 = 0.88 \text{ cm}$$