

ejercicio

Hallar el minimo de comun multiplo:

* 24 y 28

* 15 y 35

* 18 y 36

2 Hallar el M.C.D.

• 24 y 32

• 36 y 48

• 12 y 18

Solución

* $M_{24} = [24, 48, 72, 96, 120, 144, \underline{168}, \dots]$

* $M_{28} = [28, 56, 84, 112, 140, \underline{168}, \dots]$

168

24	28	2
12	14	2
6	7	2
3	7	3
1	7	7
	1	

$2^3 \times 3 \times 7 = 168$

$$M_{15} = [15, 30, 45, 60, 75, 90, 105, \dots]$$

$$M_{35} = [35, 70, 105, \dots]$$

105

15	35		3
5	35		5
1	7		7
	1		105

$$* M_{18} = [18, 36, 54, 72, \dots]$$

$$M_{36} = [36, 72, \dots]$$

72

18	2	36		2
9	3	18		2
3	3	9		3
1	3	3		3
	1	1		$2^2 \times 3^2 = 36$

$$2 \cdot D_{24} = [1, 2, 3, 4, 6, 8, 12, 24]$$

$$D_{32} = [1, 2, 4, 8, 16, 32]$$

8

$$\begin{array}{cc|c} 24 & 32 & 2 \\ 12 & 16 & 2 \\ 6 & 8 & 2 \\ 3 & 4 & 2 \end{array}$$

$$D_{36} = [1, 2, 3, 4, 6, 8, 9, 12, 18, 36]$$

$$D_{48} = [1, 2, 3, 4, 6, 8, 12, 16, 24, 48]$$

12

$$\begin{array}{cc|c} 48 & 36 & 2 \\ 24 & 18 & 2 \\ 12 & 9 & 3 \\ 4 & 3 & 3 \end{array}$$

$$D_{18} = [1, 2, 3, \underline{6}, 9, 18]$$

$$D_{12} = [1, 2, 3, 4, \underline{6}, 12]$$

$$18 \quad 12 \quad | \quad 2$$

$$9 \quad 6 \quad | \quad 3$$

$$3 \quad 2$$