M.C.D. e m.c.m. tra monomi

calcola il m.c.m. tra i seguenti gruppi di monomi		
1	$3x^4\ ;\ 12x^2y\ ;xy^5z$	$12x^4y^5z$
2	$12ab^3\ ;\ 15a^4b^2c^3\ ;24a^3c$	$120a^4b^3c^3$
3	$-\frac{1}{2}a^3b\ ;\ -3ab^2$	a^3b^2
4	$6x^2y\ ;\ -\frac{1}{2}xy^2z\ ;\ \frac{2}{3}x^3yz$	x^3y^2z
5	$10x^3y^2,\ \ -15xy^3$	$30x^3y^3$
6	$12xy^2z,\ \ -8x^3yz$	$24x^3y^2z$
7	$8abc^2,\ \ -10a^2b^2c^2,\ \ 12ab^3c^4$	$120a^2b^3c^4$
8	$-12x^3y,\ \ -3x^2y^3z,\ \ 15xy^2$	$60x^3y^3z$
9	$-2x^2yz,\ \ 6x^3y^2z^3,\ \ -10xy$	$30x^3y^2z^3$
10	$a^2bc^4,\ \ a^5bcx^4,\ \ a^{10}b^4x$	$a^{10}b^4c^4x^4$
11	$\frac{2}{3}a^2bc,\ \ -\frac{3}{4}ab^2,\ \ \frac{1}{5}ab^3c^2$	$a^2b^3c^2$
12	$-4x^3y^3z,\ \ 15xy^2u,\ \ -3x^8z^8u^2$	$60x^8y^3z^8u^2$
13	$6a^3b^2,\ \ 9a^2b^3c,\ \ 21abc^2$	$126a^3b^3c^2$
14	$6x^2y,\ \ -\frac{1}{2}xy^2z,\ \ \frac{2}{3}x^3yz$	x^3y^2z
15	$x^2y,\ \ xy^2,\ \ z$	x^2y^2z
16	$14x^3y^2,\ \ xy,\ \ 4x^3y^4,$	$28x^3y^4$
17	$4ab^2,\ \ a^3b^2,\ \ 5ab^5$	$20a^3b^5$
18	$4a^2y,\ \ y^3c,\ \ 15ac^5$	$60a^2c^5y^3$
19	$13xyc^2,\ \ x^2y^3c^2,\ \ 6c^4$	$78c^4x^2y^3$
20	$30ab^2c^4,\ \ 5a^2c^3,\ \ 12abc$	$60a^2b^2c^4$

M.C.D. e m.c.m. tra monomi

21	$\frac{2}{3}x^2y^2,\ \frac{1}{6}xy^2z,\ \frac{2}{5}xyz^2$	$x^2y^2z^2$
22	$-3a^3b^2,\ 4a^2bc,\ -2ab^3c^2$	$12a^3b^3c^2$
23	$-\frac{2}{3}x^2y,\ 3xy^2z,-\frac{1}{4}x^3yz^2$	$x^3y^2z^2$

calcola il M.C.D. tra i seguenti gruppi di monomi		
24	$12a^3b^2\ ;\ 16a^2b$	$4a^2b$
25	$14a^3b^4c^2\ ;\ 4ab^2\ ;\ 8a^2b^3c$	$2ab^2$
26	$\frac{1}{4}x^3yz^2; 5x^2yz^3; 7xy^4z^2$	xyz^2
27	$3x^4\ ;\ 12x^3y\ ;\ xy^5$	x
28	$12a^2b^3\ ; 15a^4b^2c^3;\ 24a^3c^2$	$3a^2$
29	$x^my^mz^m,\ \ x^{2m}y^mz^{2m},\ \ x^{2m}y^{4m}z^{4m}$	$x^my^mz^m$
30	$5x^3y^2z^3,\ \ \frac{1}{8}xy^2z^2,\ \ 7x^3yz^2$	xyz^2
31	$14x^3y^2,\ \ xy,\ \ 4x^3y^4$	xy
32	$-\frac{1}{4}ab^2c,\quad -3a^2b^2c,\quad -\frac{1}{2}b^2c^2$	ab^2c
33	$\frac{2}{3}x^2y^2,\ \ \frac{1}{6}xy^2z,\quad \frac{2}{5}xyz^2$	xy
34	$-3a^3b^2c,\quad 6a^2b,\quad -12a^2b^2c^3$	a^2b
35	$-4a^2b^2,\quad \frac{2}{5}a^2b^3c^2,\quad -\frac{3}{4}a^3b^4c$	a^2b^2
36	$5a^3b, 2a^2b^2$	a^2b
37	$-8a^2b^3, 2ab^2$	$2ab^2$
38	$3a^2b^2, 12a^2b$	$3a^2b$
39	$-15x^2y, 10x^2y^2$	x^2y
40	$-12a^3b^4c, 32a^2b^3c^2, -20ab^2c^3$	$4ab^2c$

M.C.D. e m.c.m. tra monomi

41	$-10ab^2, 15a^2b^2c, 35a^2b^3$	$5ab^2$
42	$50a^3b^2, 65a^2c^3, 45b^3c^2$	5
43	$a^2bc^4, a^5bcx^4, a^{10}b^4x$	a^2b
44	$-\frac{2}{3}a^2bc, \frac{3}{4}a^3b^2c^2, \frac{1}{2}ab^3c$	abc

determina la parte letterale del M.C.D. dei seguenti monomi		
45	$-\frac{1}{2}ab^3c^2, -\frac{1}{3}a^2bc^2, \frac{1}{4}a^3bc^3$	abc^2
46	$a^2b, abc^3, a^3b^3, b^5c^4$	b
47	$ax^2, ax^2y^2, a^2xy^3, axy$	ax
48	$-\frac{1}{2}x^3y^6z^3, \frac{1}{4}axy, -\frac{3}{2}a^2x^2yz$	xy
49	$x^my^m, x^{2m}y^m, x^{2m}y^{4m}$ $con\ m \in N$	x^my^m
50	$x^my^mz^m, x^{2m}y^mz^{2m}, x^{2m}y^{4m}z^{4m}$ $con\ m \in N$	$x^my^mz^m$
51	$5x^3y^2z^3, \frac{1}{8}xy^2z^2, 7x^3yz^2$	xyz^2
52	$14x^3y^2, xy, 4x^3y^4$	xy
53	$-\frac{1}{4}ab^2c, -3a^2b^2c, -\frac{1}{2}b^2c^2$	b^2c
54	$\frac{2}{3}x^2y^2, \frac{1}{6}xy^2z, \frac{2}{5}xyz^2$	xy
55	$-3a^3b^2c, 6a^2b, -12a^2b^2c^3$	a^2b
56	$-4a^2b^2, \frac{2}{5}a^2b^3c^2, -\frac{3}{4}a^3b^4c$	a^2b^2