

ERRATA CORRIGE al testo  
Capparelli-Del Fra: Esercizi di Geometria, Ed. Esculapio

<i>PAG.</i>	<i>RIGA</i>	<i>ERRATA</i>	<i>CORRIGE</i>
3	13	$x - x$	$x \cdot x$
11	12	$\alpha^4 \neq \beta^4$	$\alpha^6 \neq \beta^6$
11	16	$\alpha^4 \neq \beta^4$	$\alpha^6 \neq \beta^6$
15	-1	(4321)	(4312)
16	-11	$fh$	$hf$
16	-8	$\begin{pmatrix} 1 & 2 & 3 & 4 \\ 4 & 3 & 2 & 1 \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 & 4 \\ x & y & z & t \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 3 & 4 \\ x & y & z & t \end{pmatrix} \begin{pmatrix} 1 & 2 & 3 & 4 \\ 4 & 3 & 2 & 1 \end{pmatrix}$
17	18	$\begin{pmatrix} 1 & 2 & \dots & 6 \\ 3 & 2 & \dots & 6 \end{pmatrix} \begin{pmatrix} 1 & 2 & \dots & 6 \\ 2 & 1 & \dots & 4 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & \dots & 6 \\ 2 & 1 & \dots & 4 \end{pmatrix} \begin{pmatrix} 1 & 2 & \dots & 6 \\ 3 & 2 & \dots & 6 \end{pmatrix}$
24	13	$\dim W = 2$	$\dim W = 1$
25	-13	$\begin{cases} x_1 = x_2 \\ x_2 = 3x_3 \end{cases}$	$\begin{cases} x_1 = x_2 \\ x_2 = 2x_3 \end{cases}$
25	-13	$W = \{(h, 3h, h)\}$	$W = \{(h, 2h, h)\}$
25	-5	$\begin{cases} x_1 = -x_3 - x_4 \\ x_2 = 4x_3 + 3x_4 \end{cases}$	$\begin{cases} x_1 = -3x_3 - x_4 \\ x_2 = 4x_3 + 3x_4 \end{cases}$
27	1	$(-8h, 4k, h)$	$(-8h, 4h, h)$
34	8	$\alpha_{22} = - \begin{vmatrix} 1 & 0 \\ 4 & 0 \end{vmatrix}$	$\alpha_{32} = - \begin{vmatrix} 1 & 0 \\ 4 & 0 \end{vmatrix}$
34	8	$\alpha_{23} = - \begin{vmatrix} 1 & 0 \\ 4 & 1 \end{vmatrix}$	$\alpha_{33} = \begin{vmatrix} 1 & 0 \\ 4 & 1 \end{vmatrix}$
35	-12	$A_1 = \begin{pmatrix} 1 & 3 & -1 \\ 2 & 6 & -2 \\ -1 & 3 & 1 \\ 3 & 9 & -3 \end{pmatrix}$	$A_1 = \begin{pmatrix} 1 & 3 & -1 \\ 2 & 6 & -2 \\ -1 & -3 & 1 \\ 3 & 9 & -3 \end{pmatrix}$
35	-12	$A_2 = \begin{pmatrix} 1 & 3 & -1 \\ 2 & 6 & -2 \\ -1 & 3 & 1 \\ 3 & 9 & 1 \end{pmatrix}$	$A_2 = \begin{pmatrix} 1 & 3 & -1 \\ 2 & 6 & -2 \\ -1 & -3 & 1 \\ 3 & 9 & 1 \end{pmatrix}$
38	12	$(2, 7, 1)$	$(1, 7, 1)$
38	15	$\begin{pmatrix} 1 & 2 & 0 \\ -1 & 3 & 1 \\ 2 & 7 & 1 \end{pmatrix}$	$\begin{pmatrix} 1 & 2 & 0 \\ -1 & 3 & 1 \\ 1 & 7 & 1 \end{pmatrix}$
40	5	$(2, -5, 1)$	$(3, -5, 2)$
41	2	$\left[ \begin{pmatrix} 1 & 1 & -3 & 1 & 0 \\ 0 & 1 & 2 & 1 & 1 \\ 0 & 0 & 6 & -2 & 0 \\ 0 & 0 & 0 & \frac{22}{3} & 3 \end{pmatrix} \right]$	$\left[ \begin{pmatrix} 1 & 1 & -3 & 1 & 0 \\ 0 & 1 & 2 & 1 & 1 \\ 0 & 0 & 6 & -1 & 2 \\ 0 & 0 & 0 & \frac{14}{3} & -\frac{4}{3} \end{pmatrix} \right]$
41	-4	$\left[ \begin{pmatrix} -5 & -3 \\ 2 & 2 \end{pmatrix}, \begin{pmatrix} -\frac{1}{2} & -\frac{3}{4} \\ \frac{1}{2} & \frac{5}{4} \end{pmatrix} \right]$	$\left[ \begin{pmatrix} -\frac{1}{2} & -\frac{3}{4} \\ \frac{1}{2} & \frac{5}{4} \end{pmatrix}, \begin{pmatrix} -5 & -3 \\ 2 & 2 \end{pmatrix} \right]$
47	5	$h = 4$	$h = 1$
48	-6	$\text{rg}C = 2 > \text{rg}A = 1$	$\text{rg}C = 3 > \text{rg}A = 2$
51	9	$B = \begin{pmatrix} 1 & 1 \\ 1 & 3 \end{pmatrix}$ con $\det B = 2$	$B = \begin{pmatrix} 1 & 2 \\ 2 & 0 \end{pmatrix}$ con $\det B = -4$
62	13	Esercizio 3	Esercizio 4
67	2	$-3y - 4z = 0$	$-4y + 4z = 0$
70	-15	$ \vec{v}  = \sqrt{29}$	$ \vec{w}  = \sqrt{29}$
72	-10	$(\frac{6}{37}, \frac{1}{37})$ e $(-\frac{6}{37}, -\frac{1}{37})$	$(\frac{6}{\sqrt{37}}, \frac{1}{\sqrt{37}})$ e $(-\frac{6}{\sqrt{37}}, -\frac{1}{\sqrt{37}})$

<i>PAG.</i>	<i>RIGA</i>	<i>ERRATA</i>	<i>CORRIGE</i>
73	6	$x$ decrescenti	$y$ decrescenti
74	-5	$3x + 2y - 3$	$3x + 2y - 2 = 0$
75	-6	$-17h - 68$	$-17h + 68$
77	-3	quindi(1,1)	quindi (1, 1)
79	11	discende $5(2t - 1)$	discende $3(2t - 1)$
79	-10	$\frac{1}{2} \begin{vmatrix} -4 & -2 & 1 \\ -2 & -3 & 1 \\ t & t+1 & 1 \end{vmatrix}$	$\frac{1}{2} \begin{vmatrix} -4 & -2 & 1 \\ -2 & -3 & 1 \\ -t & t+1 & 1 \end{vmatrix}$
80	-1	$\begin{cases} x' = \frac{3}{5}x + \frac{4}{5}y - 1 \\ y' = -\frac{4}{5}x + \frac{3}{5}y - 18 \end{cases}$	$\begin{cases} x' = \frac{3}{5}x + \frac{4}{5}y - 1 \\ y' = -\frac{4}{5}x + \frac{3}{5}y + 18 \end{cases}$
84	-6	$x^2 + y^2 - 2x - 2y - 2$	$x^2 + y^2 - 2x - 2y - 286$
84	-5	$x^2 + y^2 - 2x - 2y - 22$	$x^2 + y^2 - 2x - 2y - 286$
88	-15	$y = ax$	$y = ax^2$
88	-11	$y = ax$	$y = ax^2$
91	-7	$20x - 10y + 11$	$20x - 12y + 11$
102	15	$\frac{49}{25}$	$\frac{41}{25}$
102	-12	$\left[ F\left(\frac{3}{2\sqrt{5}}, 0\right), F'\left(-\frac{3}{2\sqrt{5}}, 0\right), \right.$ $e = \frac{3}{\sqrt{5}}, x = \pm \frac{\sqrt{5}}{6} \left. \right]$	$\left[ F\left(\frac{1}{2\sqrt{5}}, 0\right), F'\left(-\frac{1}{2\sqrt{5}}, 0\right), \right.$ $e = \frac{1}{\sqrt{5}}, x = \pm \frac{\sqrt{5}}{2} \left. \right]$
102	-10	$\left[ F\left(\frac{3}{20}, 0\right), F'\left(-\frac{3}{20}, 0\right), \right.$ $e = \frac{3}{5}, d: x = \frac{5}{12}, d': x = -\frac{5}{12}$	$\left[ F\left(\frac{\sqrt{3}}{2}, 0\right), F'\left(-\frac{\sqrt{3}}{2}, 0\right), \right.$ $e = \sqrt{\frac{3}{2}}, d: x = \frac{1}{\sqrt{3}}, d': x = -\frac{1}{\sqrt{3}}$
102	-1	$\left[ \frac{x^2}{25} + \frac{x^2}{25} = 1 \right]$	$\left[ \frac{x^2}{25} + \frac{x^2}{24} = 1 \right]$
106	-9	$\vec{w} \cdot \vec{v} = 3$	$\vec{w} \cdot \vec{v} = 30$
107	7	$8x - 5y + 8z + 10$	$8x - 5y - 6z + 10$
107	-8	$\begin{cases} x = 2z - 8 \\ y = 7z - 20 \end{cases}$	$\begin{cases} x = -2z + 8 \\ y = -7z + 20 \end{cases}$
107	-4	$\begin{cases} \lambda(x-2z+8) + \mu(y-7z+20) = 0 \\ \lambda'(x-2z+8) + \mu'(y-7z+20) = 0 \end{cases}$	$\begin{cases} \lambda(x+2z-8) + \mu(y+7z-20) = 0 \\ \lambda'(x+2z-8) + \mu'(y+7z-20) = 0 \end{cases}$
108	8	calcolare $\vec{u} \wedge \vec{v}$	calcolare $\vec{v} \wedge \vec{v}'$
108	-12	$\begin{cases} x - 3z + 14 = 0 \\ y + 5z - 27 = 0 \end{cases}$	$\begin{cases} x - 3z + 14 = 0 \\ y + 5z - 23 = 0 \end{cases}$
111	-7	$x = -2, y = -3$	$a = -2, b = -3$
112	14	$\alpha$ passante contenente	$\alpha$ contenente
113	13	$\begin{cases} x = 3 + 4t \\ y = 4t \\ z = 4 + t \end{cases}$	$\begin{cases} x = 3 + 4t \\ y = 3t \\ z = 4 + t \end{cases}$
117	-2	$Q(2, 2, 1)$	$Q\left(\frac{13}{6}, \frac{8}{3}, \frac{7}{6}\right)$
117	-1	$\sqrt{(2+2)^2 + (2-4)^2 + (1-0)^2} = \sqrt{21}$	$\sqrt{\left(\frac{13}{6}+2\right)^2 + \left(\frac{8}{3}-4\right)^2 + \left(\frac{7}{6}-0\right)^2} = \sqrt{\frac{41}{2}}$
120	-1	Area( $ABCD$ )	Area( $ABC$ )
121	6	$r = \sqrt{x_0^2 + y_0^2 + z_0^2 - c}$	$r = \sqrt{x_0^2 + y_0^2 + z_0^2 - d}$
122	3	$(x-3)^2 + (y-0)^2 + (z-2)^2$	$(x-3)^2 + (y-0)^2 + (z-1)^2$

PAG. RIGA ERRATA

CORRIGE

122	-4	lequazione	l'equazione
123	9	$\sqrt{(1-\frac{23}{2})^2+(1-\frac{19}{2})^2+(-1+\frac{19}{2})^2}$	$\sqrt{(1-\frac{23}{2})^2+(1-\frac{19}{2})^2+(0+\frac{19}{2})^2}$
125	-3	$y'(t) = 3t^2$	$y'(t) = 6t^2$
125	-3	$y''(t) = 6t$	$y''(t) = 12t$
125	-3	$\begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 3t^2 & 5 \\ 0 & 6t & 0 \end{vmatrix}$	$\begin{vmatrix} \vec{i} & \vec{j} & \vec{k} \\ 1 & 6t^2 & 5 \\ 0 & 12t & 0 \end{vmatrix}$
127	2	$t = 0$	$t = \pi$
127	3	$t = 0$	$t = \pi$
128	11	$y''(t) = -\pi^2 \sin \pi t$	$y''(t) = \pi^2 \sin \pi t$
128	-6	$\begin{vmatrix} x & y-1 & z-2 \\ 1 & -\pi & 2 \\ -\pi i & -1 & 0 \end{vmatrix}$	$\begin{vmatrix} x & y-1 & z-2 \\ 1 & -\pi & 2 \\ -\pi & -1 & 0 \end{vmatrix}$
128	-5	$y = \cos t + \sin t, z = 3 \cos t + \sin t$	$y = 3 \cos t + \sin t, z = \cos t + \sin t$
129	4	$\frac{ \vec{v}'(0) \wedge \vec{0}''(t) }{ \vec{v}'(0) ^3}$	$\frac{ \vec{v}'(0) \wedge \vec{v}''(0) }{ \vec{v}'(0) ^3}$
132	-10	$[(2, -6, -2)]$	$[(7, -2, 1)]$
132	-9	$[\pm(\frac{2}{30}, \frac{5}{30}, \frac{1}{30})]$	$[\pm(\frac{2}{\sqrt{30}}, \frac{5}{\sqrt{30}}, \frac{1}{\sqrt{30}})]$
134	-2	$[\sqrt{14}]$	$[\frac{15}{\sqrt{59}}]$
134	-1	$r: \begin{cases} x = -2+z \\ y = 4+4z \end{cases}, r': \begin{cases} x = 1+z \\ y = -2+4z \end{cases} \cdot [\frac{15}{\sqrt{59}}]$	$r: \begin{cases} x = 2z \\ y = 3z \end{cases}, r': \begin{cases} x = 4+2z \\ y = 2+3z \end{cases} \cdot [\sqrt{6}]$