Galois Theory For Beginners
A Historical Perspective
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List of misprints
If you are interested in the book itself (and not in the misprints) please click here.

Each misprint is located in the form "*x*, *y*" meaning "page *x*, line *y*". A line $y < 0$ means "line $-y$ counted from the bottom".

1. Misprints in formulas:
4, 6:
$x^3 + px = q$

4,17:
$x^3 + px^2 = q$

14, –9:
$i^2 = -1$

21, 3:
$\cos 3\psi = \frac{3q}{2p}\frac{1}{\sqrt{-\frac{p}{3}}}$

28, 10:
the term x_1x_5 is missing

29, –5:
$b_0 = x_1^n + a_{n-1}x_1^{n-1} + \ \ldots\ + a_1x_1 + a_0 = 0$

35, 4:
(*n*–1)th-degree

40, –11:
$z^3 - \frac{p}{2}z^2 - rz + \frac{pr}{2} - \frac{q^2}{8} = 0$

41, 2:
$z = z_1$

55, –3:
brackets should be removed

57, 9:
$b \cdot h(x)$

57, –2:
$\frac{a}{p} \cdot g(x)$

67, –12:
$\eta_0\eta_1 = -4$

68, 5:
$z^2 - \eta_1 z - 1 = 0$

68, 13:
$y^2 - \mu_0 y + \mu_1 = 0$

68, 17:
$y^2 - \beta_0 y + 1 = 0$

71, –5, first sum:
$\zeta^{j + jg^{qe}}$

72, footnote 6, 3:
$2^{jk} + 1$

74, –7:
circle has radius 1

83, –10:
$x^5 - 5(mn + pq)x^3 + 5(m^2q + n^2p + mp^2 + nq^2)x^2$

83, –8:
$+ m^5 + n^5 + p^5 + q^5 + 5(mn - pq)(mp^2 + nq^2 - m^2q - n^2p) = 0.$

112, 8:
$z^3 - 12z - 8 = 0$

112, 10:
$\left(\frac{-8}{2}\right)^2$ instead of $\left(\frac{8}{2}\right)^2$

114, 15:
$x^5 - 17x - 17 = 0$

133 , footnote 5, –2:
$K(x_1, \ldots, x_n)$

139, 1:
$g(t) \in K[t]$

143, 3:
~~$U =$~~ $\mathrm{Aut}(K(x_1, \ldots, x_n) \mid L)$

151, 16:
$\zeta, \zeta^2, \ldots, \zeta^{n-1}$ for a prime number n

152, –5:
$\sum_{k=0}^{n-1} (\zeta^k, b) = nb$

155, –8:
$\{\mathrm{id}, \sigma_g, \sigma_g^2, \ldots, \sigma_g^{n-2}\}$

155, –6:
from the field $\mathbb{Q}(\zeta)$

160, –3:
not solvable for $n \geq 5$

163, 3:
residue classes $a, b \in \mathbb{Z}/n\mathbb{Z}$ with $a \neq 0$, form

2. Textual misprints:

x, –16:
(1501–1576)

4, –11:
could

20, 5:
given

23, 4:
foreword

33, two last lines:
one zero–and indeed n complex zeros.

34, 17:
and then choose the number $z_1 = ...$

34, –3:
Finally, we remark

44, 2:
? instead of "."

49, –6 & –5:
Norwegian mathematician

53, 7:
of the solutions of the given equation

53, footnote 6, 1:
naturally

54, 8:
polynomials.

55, –8:
that, though not decomposable

55, –2:
from the quadratic equation

56, –6 & –5:
the following section

57, 8:
two positive integers a and b

60, –3:
~~once again~~

68, 8:
periods β_0 and β_4

69, footnote 4, 2:
no. 7, 1977, pp. 122-131

73, footnote 8, –1:
interesting

74, –1:
transcendental

Page 75, –9:
Disquisitiones

76, 5:
~~the~~ identical

90, 15:
quadratic

100, 4:
that preserve the polynomial

120, 5:
with the remainder polynomial

129, 7:
the *left coset* of σ

131, 13:
of order n

132, 3:
The extension of this subfield to the field of all ...

135, 17:
was known

150, 2:
assumptions

151, –17:
"if" should be replaced by "if and only if".

169, 12
the elementary symmetric polynomials

170, 7:
is not solvable for

171, 5;
subfield of the complex numbers

3. Layout:

60, 2:
$(x-1)$ *should be written in one line.*

4. Improvements:

38, –8:

$$x_{1,2} = \tfrac{1}{2}(x_1 + x_2) \pm \tfrac{1}{2}(x_1 - x_2) = \tfrac{1}{2}(x_1 + x_2) \pm \tfrac{1}{2}\sqrt{(x_1 + x_2)^2 - 4x_1x_2}$$

43, 10&11, 15
remove the lines 10 and 11. Line 15 should be changed to

instead of $\begin{pmatrix} 1 & 2 & 3 & 4 \\ 3 & 1 & 4 & 2 \end{pmatrix}$.

104, –1
105, 6, 7, 16:
replace in each line "m×m" with "m^2"