# Errata and Suggestion Sheet

*A First Course In Abstract Algebra, seventh edition, by John B. Fraleigh*

| Location | Error | Finder | Date |
|---|---|---|---|
| p. 208, #23. g. | for "…subfield $E$…" write "…subfield of $E$…" | AH | 6 Apr 2009 |
| p. 215, line -13 | for "factorization." write "factorization" | LF | Spring 2007 |
| p. 215, line -2 | for "$a_i = 0 \pmod{p}$" write "$a_i \equiv 0 \pmod{p}$" | IB | 1 May 2007 |
| p. 219, # 25 | parts **e.** and **f.** are identical | IB | 30 Apr 2007 |
| p. 238, line -6 | for "$\phi : R \to R$…" write "$\phi : R \to R'$…" | AD | Spring 2007 |
| p. 241, line 1 | for "addive" write "additive" | LF | Spring 2007 |
| p. 277, line 7 | for "Theorem 30.18" write "Theorem 29.18" | AD | 3 May 2009 |
| p. 282, # 21 | for "$\{\beta_i, \beta_2, \cdots, \beta_n\}$" write "$\{\beta_1, \beta_2, \cdots, \beta_n\}$" | LF | Spring 2007 |
| p. 283, line 12 | for "$E$ is finite" write "$E$ is a finite" | JH | 26 Apr 2007 |
| p. 294 | Numbering skips from 32.1 Thm. to 32.5 Cor. | TT | 13 Apr 2009 |
| p. 297, line 7 | for "Theorem 32.4" write "Theorem 31.4" | JH | 1 May 2007 |
| p. 303, line -1 | put a longer bar over the "$F$" | AH | 21 Apr 2009 |
| p. 349, line -16 | for "thus isomorphic to $Z_2$" write "thus isomorphic to $\mathbb{Z}_2$" | AH | 8 Jun 2009 |
| p. 412, # 6 | for "…Theorem 47.4." write "…Theorem 47.4.]" | JH | 8 May 2007 |
| p. 416, line 11 | for "$c_0 + c_i\alpha$" write "$c_0 + c_1\alpha$" | AH | 18 May 2009 |
| p. 420, line -1 | for "$\psi_{\sqrt{3},-\sqrt{3}.}$" write "$\psi_{\sqrt{3},-\sqrt{3}}.$" | AH | 27 May 2009 |
| p. 421, # 10 | for "G$(\mathbb{Q}\left(\sqrt{2}, \sqrt{3}\right)/\mathbb{Q})$" write "$G(\mathbb{Q}(\sqrt{2}, \sqrt{3})/\mathbb{Q})$" | TT | 14 May 2009 |
| p. 428, line 1 | for "candiates" write "candidates" | AH | 8 Jun 2009 |
| p. 428, line 15 | for "characteristics $p \neq 0$," write "characteristic $p \neq 0$," | AH | 19 May 2009 |
| p. 430, Fig. 49.12 | for "$K'[x]/\langle p(x)\rangle$" write "$K'[x]/\langle q(x)\rangle$" | TT | 20 May 2009 |
| p. 431, line -6 | for "…of a field $E$" write "…of a field $F$" | TT | Spring 2007 |
| p. 432, line 11 | for "$\mathbb{Q}[\sqrt{2}, \sqrt{3}]$" write "$\mathbb{Q}\left(\sqrt{2}, \sqrt{3}\right)$" | TT | 20 May 2009 |
| p. 433, line 3 | for "$B \in E$," write "$\beta \in E$," | TT | 22 May 2009 |
| p. 433, line 20 | for "$\mathbb{Q}[\sqrt{2}, \sqrt{3}]$" write "$\mathbb{Q}\left(\sqrt{2}, \sqrt{3}\right)$" | AH | 27 May 2009 |
| p. 434, line 10 | for "$= 4$." write "$= 4$," | TT | Spring 2007 |
| p. 434, line -11 | for "verify by cubing that" write "verify, by cubing, that" | AD | 27 May 2009 |
| p. 437, line 9 | for "$F[x]$ of the form" write "$\overline{F}[x]$ of the form" | TT | 26 May 2009 |
| p. 438, line 15 | for "$\mathbb{Q}[\sqrt{2}, \sqrt{3}]$" write "$\mathbb{Q}\left(\sqrt{2}, \sqrt{3}\right)$" | TT | 26 May 2009 |
| p. 473, line 5 | for "$[(x^{n_2} - \sigma(\alpha_2)^{n_2}]$" write "$[x^{n_2} - \sigma(\alpha_2)^{n_2}]$" | AH | 3 Jun 2009 |
| p. 473, line 14 | for "$[(x^{n_i} - \sigma(\alpha_i)^{n_i}]$" write "$[x^{n_i} - \sigma(\alpha_i)^{n_i}]$" | AH | 3 Jun 2009 |
| p. 500, Sec. 18 #21 | for "Let $\mathbb{R} = \mathbb{Z}$…" write "Let $R = \mathbb{Z}$…" | AH | 6 Apr 2009 |
| p. 505, line 2 | for "$\{\{0, 8, 16\}, 4, 12, 20\}\}$" write "$\{\{0, 8, 16\}, \{4, 12, 20\}\}$" | AH | 21 Apr 2009 |
| p. 505, Sec. 35 #9 | In line 1: for "$S_3 \times (0)$" write "$S_3 \times \{0\}$" | TT | 3 Jun 2009 |
| p. 505, Sec. 35 #9 | Add: $H = \{(\rho_0, 0), (\rho_1, 0), (\rho_2, 0), (\mu_1, 1), (\mu_2, 1), (\mu_3, 1)\}$ and $\{(\rho_0, 0)\} < A_3 \times \{0\} < H < S_3 \times \mathbb{Z}_2$ | TT | Spring 2007 |
| p. 511, line 6 | for "$\{\rho_1, \mu_1\}$" write "$\{\rho_0, \mu_1\}$" | AD | 2 Jun 2009 |
| p. 513 col. 1, line -2 | for "91" write "93" | AD | 3 May 2009 |
| p. 519 col. 1, line -5 | for "422" write "432" | AH | 10 Jun 2009 |