

Math 330 - Number Systems - Section 2 - Spring 2026

Selected Solutions for Spring 2026 Quizzes

Quiz 01:

#1 a. $\{e, f, g, h, i, j\}$ b. $\{g, h\}$ c. $\{i, j\}$ d. $\{e, f, i, j\}$ e. $\{c, d, e, f, i, j\}$ f. **_false_**

#2: Valid choices are #4, #6, #8; Note that #5, #7 $\notin \mathbb{Q}$ #3: $[3, 7]$ and $]0, 10[$

#4: $f : [-3, \infty[\mathbb{Z} \rightarrow \mathbb{Z}; k \mapsto 2k^2 + 3$ #5: See lecture notes, ch.2.4

Quiz 02:

#1 column a): **all true** column b): **all true except #4** column c): **all false except #5, #6**

If (a), (b), (c) hold, it's a **group**

#2 See lecture notes, Ch.3.1 #3(a1) $\emptyset$ #3(a2) **A** #3(b) **True**