

Exercise #5

(範圍: Relations)

1. P. 252: 4. (10%)
2. P. 252: 12. (10%)
3. P. 364: 3. (10%)
4. P. 365: 6 (only for (a) and (c)). (10%)
5. P. 370: 8. (10%)
6. P. 371: 14 (only for (a), (b), (d), (f)). (20%)
7. P. 66: 2. (10%)
8. P. 66: 4. (10%)
9. Prove that if $3 \mid n^2$, then $3 \mid n$, where n is a positive integer, by the methods of
 - (a) $p \rightarrow q \Leftrightarrow \neg q \rightarrow \neg p$; (5%)
 - (b) contradiction. (5%)