

Problem Set 7 (for Lecture 9) Solutions

April 24, 2017

A1.

- $20|300$ is true
- $17|35$ is not true
- $5|0$ is true
- $0|5$ is not true
- $21|(-21)$ is true

A2. This proof is valid.

A3. This proof is valid.

A4. 24 pts. This proof is perfect. Logical Correctness (4 pts) + Clarity (4 pts) + Opening (4 pts) + Stating the conclusion (4 pts) + Reasons (4 pts) + Overall valuation (4 pts).

A5. 16 pts. Logical Correctness (0 pts) + Clarity (4 pts) + Opening (4 pts) + Stating the conclusion (4 pts) + Reasons (4 pts) + Overall valuation (0 pts). The base step is wrong, so the whole proof is simply incorrect.

A6. 10 pts. Logical Correctness (4 pts) + Clarity (0 pts) + Opening (0 pts) + Stating the conclusion (2 pts) + Reasons (2 pts) + Overall valuation (2 pts).