Examlet 2 Example Rubrics

Table 1: Concrete set computation (2.5 points each part)

Criteria	**Mastered (1.5)**	**Proficient (1)**	**Novice (.5)**	**Absent(0)**
Raw answer	completely correct/all elements are correct	set elements mostly correct/set size off by one	set elements have large error or set size off by some factor	completely incorrect
Criteria	**Mastered (1)**	**Novice (.5)**	**Absent(0)**	
Answer form	answer is written in the correct form (*i.e.,* set or cardinality)	small error in form/answered wrong question (*e.g.,* gave set elements rather than stating size of set)	large error in form	

Table 2: Set inclusion proof (15 points)

Criteria	**Mastered (3)**	**Proficient (2)**	**Novice (1)**	**Absent (0)**
Variable declaration and type	all variables declared before use (including representative element)	variables declared but missing type; or invocation of type missing later when needed	missing most variable introductions	missing all variable introductions
Set definitions	set elements follow set definitions	set elements have a small error	set elements have a large error in form (*e.g.,* Z instead of Z^2)	set elements completely incorrect
Algebraic details	all algebra is correct (chain of equations from one set to another)	small error	large error	completely incorrect
Proof outline	recommended proof technique is used (choose element from small set and show it's in big set)	proof technique is clumsy but mathematically sound	proof technique has some logical errors	completely incorrect or backwards
Style and clarity	easy to follow	argument slightly hard to follow	very hard to follow (*e.g.,* no connector words)	impossible to follow