

Examlet 1 Example Rubrics

Table 1: Direct proof (12 points)

Criteria	Mastered (3)	Proficient (2)	Novice (1)	Absent (0)
Variable declaration and type	all variables and types declared	variables declared at beginning <i>but</i> missing invocation of this type at the end if it is needed for correctness	variables declared but no types	missing
Definitions and details	key concept definitions are stated correctly when necessary (divides, rational, mod) and other details (algebra) correct	minor error in definitions or algebra	major error in definitions or algebra	definitions or algebra completely incorrect
Flow of logic	proof begins with assumptions and ends with the claim	proof stops one step before claim or doesn't clearly state assumptions	some large issue with logical flow	proof assumes claim to be true (largely backwards)
Style and clarity	easy to follow	argument slightly hard to follow	proof hard to follow due to unnecessary detail/wordiness	very hard to follow (<i>e.g.</i> , no connector words)

Table 2: Forming negation/contrapositive (5 points)

Criteria	Mastered (2)	Acceptable (1)	Novice (0)	
Main negation or contrapositive	the form of the negation or contrapositive is completely correct (<i>e.g.</i> , $a \implies b$ becomes $\neg b \implies \neg a$)	very small issue in form (<i>e.g.</i> , missed a negation)	form has large issue (<i>e.g.</i> , $a \implies b$ becomes $b \implies a$)	
Criteria	Mastered (3)	Acceptable (2)	Novice (1)	Absent (0)
Details (<i>e.g.</i> , quantifier, “not”s)	quantifier is present and correct, all “not”s are handled properly, deMorgan’s applied correctly, answer written in words	missing/incorrect quantifier or answer not written in words	all “not”s not handled properly or other large incorrect detail	details all incorrect