Examlet 4 Example Rubrics

Table 1: Unrolling problem, substitution only (6 points)

Criteria		Mastered (2)		Proficient (1)		Novice (0)	
Simplifying		fully simplified		some	simplifica-	not simplified at	
				tion missing		all	
Criteria		Mastered (4)		Proficient (3)		Novice (1)	Absent (0)
Two	substitu-	both	substi-	small	algebraic	extra work term	extra work term
tions		tutions	done	error		left as n, or didn't	left as n and
		properly				show any work	didn't show any
							work

Table 2: Unrolling problem, final stages (6 points)

Criteria	Mastered (2)	Proficient (1)	Novice (0)	
Finding value of k at	value of k found	found value at k at in-	completely incorrect	
base case		correct base case	or missing	
Subbing value of k and	both substitutions	base case substitution	completely incorrect	
base case	done properly	incorrect	or missing	
Simplifying	fully simplified	missing some simplifi-	not simplified at all	
		cation		

Table 3: Induction (15 points)

Criteria	Mastered (2)	Proficient (1)	Absent (0)	
Base case(s)	checks correct	either checks in-	neither checks	
	values and shows	correct values or	correct values	
	some work	does not show	nor shows work;	
		work	or missing	
Inductive hy-	bounds (strong	incorrect bounds	missing or incor-	
pothesis	IH) and claim	or claim (weak	rect bounds and	
	correct, explicitly	IH)	claim	
	stated			
Style and clarity	excellent style,	poor formatting	very difficult to	
	good connector	or use of words	follow	
	words and for-			
	matting			
Criteria	Mastered (3)	Proficient (2)	Novice (1)	Absent (0)
Goal and division	larger problem	goal off by one,	small issue with	large issue with
of problem	split correctly	but split cor-	split	split (including
	into smaller	rectly		missing)
	problem(s) and			
	goal matches IH			
Applying IH	IH applied where	IH applied but	missing some	IH never applied
	necessary with	small issue with	case where IH	
	correct values	values, or doesn't	must be applied	
	plugged in	call out IH		
Details	algebra or other	small issue with	large issue with	large issue with
	details correct;	details, or stops	details	details and con-
	conclusion is	one step before		clusion never
	reached	conclusion	I .	reached

Note: Any major issues with dividing the problem will typically also result in errors and points off in other sections (applying IH and details).