Practical 2 Rubric

Example 1

u_n plots $\quad k = 1, \ldots, 7$ **8 points**

Error table

K	h	$U_n(x_0)$	Order
1	n_1	$U_n(x_0)_1$	—
⋮	⋮	⋮	order$_3$
			⋮
7	h_7	$U_n(x_0)_7$	order$_7$

8 points

Order of Convergence : **9 points**

Example 2

manufactured solution U_m **5 pts**

U_n plots $\quad k = 1, \ldots, 7$ **5 pts**

$e_n = U_n - U_m$ plots $\quad k = 1, \ldots, 7$ **5 pts**

Error table

K	h	L^2	L^∞	Order L^2	Order L^∞
1	n_1	L^2_1	L^∞_1	=	=
⋮	⋮	⋮	⋮	Order$_3$	Order$_3$
			⋮	⋮	⋮
7	h_7	L^2_7	L^∞_7	Order$_7$	Order$_7$

5 pts

Order of Convergence for L^2 and L^∞ **5 pts**