

We can then revisit the “order table” that we saw in the explicit RK section, comparing the explicit RK methods (ERK) to the implicit RK methods (IRK)

Order	Stages required	Order	Stages required
ERK2	2	IRK2	1
ERK4	4	IRK4	2
ERK6	7	IRK6	3
ERK8	11	IRK8	4

and readily see that IRK methods requires dramatically less stages to achieve the same order as ERK methods. Let us illustrate this statement in Figure 7.2.