```
// From the pendulum program
fn runge_kutta(
    vars: &MvVec,
    pars: &Vec<f64>,
    rhs: &dyn Fn(&MyVec, &Vec<f64>) -> MyVec,
    dt: f64,
) -> MyVec {
    let rk_1 = rhs(vars, pars);
    let rk_2 = rhs(&vars.add(&rk_1.scale(dt / 2.0)), pars);
    let rk_3 = rhs(&vars.add(&rk_2.scale(dt / 2.0)), pars);
    let rk_4 = rhs(&vars.add(&rk_3.scale(dt)), pars);
    let vars_new = vars
        .add(&rk_1.scale(dt / 6.0))
        .add(&rk_2.scale(dt / 3.0))
        .add(&rk_3.scale(dt / 3.0))
        .add(&rk_4.scale(dt / 6.0)):
    vars new
```