Example

$$h_{\text{RVe}} (t_n, y_n)$$
, get  $(t_{nH_1}, y_{nH_1})$ 
 $h_1 = f(t_n, y_n)$ 
 $h_2 = f(t_n + h_1, y_n + h_n)$ 
 $y_{nH_1} = y_n + h_2 (h_1 + h_2)$ 
 $explicit trapezoid$ 
 $h_1 = f(t_n, y_n)$ 
 $h_2 = f(t_n + \frac{1}{2}h_1, y_n + \frac{1}{2}h_n)$ 
 $h_3 = f(t_n + \frac{1}{2}h_1, y_n + \frac{1}{2}h_n)$ 
 $h_4 = f(t_n + \frac{1}{2}h_1, y_n + \frac{1}{2}h_n)$ 
 $h_5 = g_n + h_6$ 
 $h_6 = f(t_n, y_n)$ 
 $h_7 = g_n + h_6$ 
 $h_8 = f(t_n, y_n)$ 
 $h_9 = g_n + h_6$ 
 $h_9 = g_0$ 
 $h_9 = g_0$ 

