

Ex 8.10

Read  $n \Rightarrow$  int. condition

RK4

RK4

One big step  
 $2h$

Two little steps  
 $h$   $h$

Compare  
err.  $x$   
 $f(x) - f(x)$

Compare  
err.  $y$   
 $f(y) - f(y)$

If  $200$

NOT

Increase  $h$

~~check~~  
 $s = 30h8$   
err. err

check  
 $s > 1$

NO

decrease  
 $h = s/4$

YES

Increase  
 $h = s/4$

Ex 8.14

$$\frac{d^2\psi(x)}{dx^2} = \frac{2m}{\hbar^2} (V - E)\psi$$

