Programa principal

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Mètode d'Euler millorat o Heun

```
clear variables; clc;
```

EDO

Euler

```
h=0.5; t1=[a:h:b];

[ ye1 ] = RK4( f,a,b,h,alpha );

disp([ye1' ,g(t1)'])

h=0.25; t2=[a:h:b];

[ ye2 ] = RK4( f,a,b,h,alpha );

format short g;

disp(' RK4 y(t)')

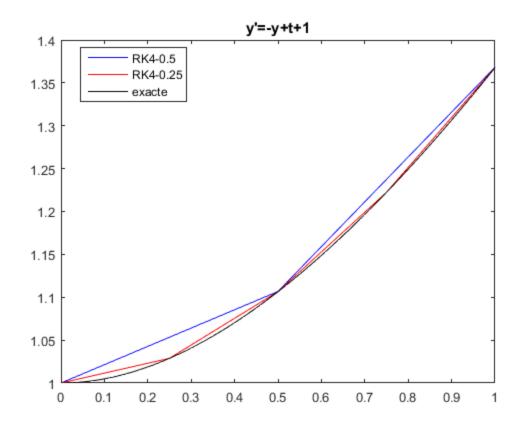
1 1.1068 1.1065

1.3682 1.3679

RK4 y(t)
```

Gràfiques

```
plot(t1,ye1,'b',t2,ye2,'r',texa,yexa,'k'),title('y''=-y+t+1')
legend('RK4-0.5','RK4-0.25','exacte','Location','best')
```



Error

```
yelerror=norm(yel-g(t1))
yelerror=norm(yel-g(t2))

yelerror =
    0.00037762
yelerror =
    2.5076e-05
```

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