Programa principal

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Mètode d'Euler millorat o Heun

```
clear variables; clc;
```

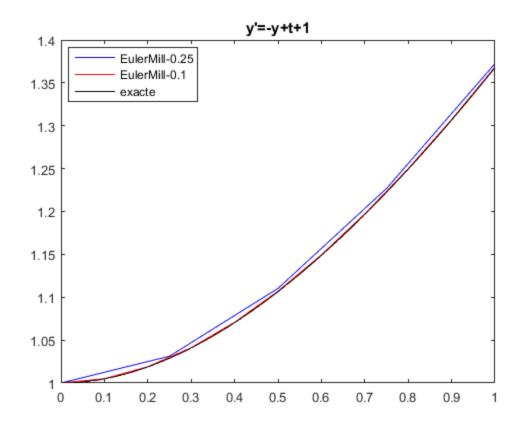
EDO

Euler Millorat

```
h=0.25; t1=[a:h:b];
[ yel ] = EulerMill( f,a,b,h,alpha );
format short g;
disp(' EulerMill
                           y(t)')
disp([ye1',g(t1)'])
h=0.1; t2=[a:h:b];
[ ye2 ] = EulerMill( f,a,b,h,alpha );
    EulerMill
                     y(t)
       1.0313
                    1.0288
       1.1104
                    1.1065
                    1.2224
       1.2268
       1.3725
                    1.3679
```

Gràfiques

```
plot(t1,ye1,'b',t2,ye2,'r',texa,yexa,'k'),title('y''=-y+t+1')
legend('EulerMill-0.25','EulerMill-0.1','exacte','Location','best')
```



Error

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

yelerror =
    0.0078869
yelerror =
    0.0016826
```

Published with MATLAB® R2015b