Programa principal

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Mètode d'Euler modificat

```
clear variables; clc;
```

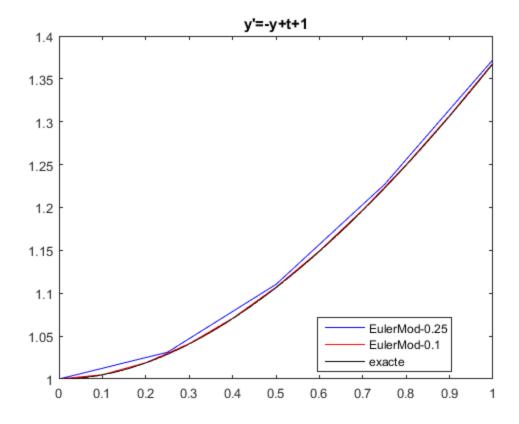
EDO

Euler

```
h=0.25; t1=[a:h:b];
[ yel ] = EulerMod( f,a,b,h,alpha );
format short g;
disp('
       EulerMod
                           y(t)')
disp([ye1',g(t1)'])
h=0.1; t2=[a:h:b];
[ ye2 ] = EulerMod( f,a,b,h,alpha );
     EulerMod
                     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('EulerMod-0.25','EulerMod-0.1','exacte','Location','best')
```



Error

```
yelerror=norm(yel-g(t1))
ye2error=norm(ye2-g(t2))

yelerror =
    0.0078869
ye2error =
    0.0016826
```

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