
Subject: Re: plot tangentail vector
Posted by [JMB](#) on Wed, 16 Jan 2008 13:44:47 GMT
[View Forum Message](#) <> [Reply to Message](#)

Does this short example help you?

```
N = 200
X = FINDGEN(N)
Y = 10*SIN(x/16)-10*COS(x/8+2)
A = abs(16*SIN(x[1:N-2]/4.))

PLOT, X, Y

vx=X[2:N-1]-X[1:N-2]
vy=(Y[2:N-1]-Y[0:N-3])/2.

Norm=A/sqrt(vx^2+vy^2)

ARROW,X[1:N-2],Y[1:N-2],X[1:N-2]+Norm*vx,Y[1:N-2]+Norm*vy,/
DATA,color=220
PLOT, X, Y, /noerase

END
```

Regards,

Jérôme
