Subject: Re: vectors with same length
Posted by Kenneth P. Bowman on Mon, 28 Jul 2008 21:44:53 GMT
View Forum Message <> Reply to Message

In article
<e8c1f958-1621-4dba-9f10-ebba593e2de9@d1g2000hsg.googlegroups.com>,
 knielsen73@gmail.com wrote:

> Hi,
>
> I am using velovect to create a vector plot. I would like for all the
> vectors to have the same length instead of the length representing
> amplitude. Is there are quick way to do this using velovect, or do I
> have to modify velovect?
>
> Thanks,
> Kim

Just divide each vector by it's magnitude. Given vector components u and v

mag = SQRT(u^2 + v^2)

VELOVECT, u/mag, v/mag

Watch out for zeroes, though.

Ken Bowman