

Re: $R[X,Y]$ polynomial ring

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- *From:* "Mike" <Mike_jones@xxxxxxxxxx>
 - *Date:* Wed, 25 May 2005 18:25:00 +0100
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Sorry about the inconsistent use of x and X

have another little query

Am trying to show that $Z[\sqrt{-5}]$ is not a PID

I'm having trouble actually constructing a non-principal ideal

The ideal I get is $(1 + \sqrt{-5}, 2)$ but having trouble showing it

a) is an ideal

b) is principal

Sorry if this sounds a little simple!

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 - ◇ *From:* Arturo Magidin
- *References:*
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 - ◆ **[Re: \$R\[X,Y\]\$ polynomial ring](#)**
 - ◇ *From:* Mike
 - ◆ **[Re: \$R\[X,Y\]\$ polynomial ring](#)**
 - ◇ *From:* Arturo Magidin
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