

Re: R[X,Y] polynomial ring

Source: <http://sci.tech--archive.net/Archive/sci.math/2005-05/msg04465.html>

- *From:* "Mike" <Mike_jones@xxxxxxxxxx>
 - *Date:* Tue, 24 May 2005 19:29:06 +0100
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> Mike <Mike_jones@xxxxxxxxxx> wrote:
>>ah i see, a quick query
>>the ideal
>>reals $-R[X][1+X^2]$ what does this ideal look like?
>
> Huh?
>
> Do you mean, $R[X](1+X^2)$? I.e., all multiples of $1+X^2$?
>
> It looks like all multiples of $1+X^2$. They are exactly the polynomials
> of $R[X]$ which have the complex number i as a root.
yeah sorry
so does that mean it consists of
{ $1+x^2, x+x^3, \dots$ }

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◇ *From:* Arturo Magidin

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

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