

Re: Self Study problem help – Group theory

Source: <http://sci.tech–archive.net/Archive/sci.math/2005–07/msg04063.html>

- *From:* abe.buckingham@xxxxxxxxxx
 - *Date:* 25 Jul 2005 19:38:26 –0700
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I see what you mean about $1/9$. Perhaps it would be better to simply define X to be all rationals in lowest terms with an odd denominator? I suspect that it would still work this way.

I have convinced myself that if $a, b, c,$ and $d,$ integers with b and d odd then $(a/b) + (c/d)$ in lowest terms is odd so I am content that I had that portion correct.

Unfortunately I do not understand what you mean when you say that ' k^m is not germaine' and cannot seem to find a definition for germaine. With the revision to the definition of X to include all odd denominators could I simply take an odd prime p not in the denominator of k and say that $1/p$ is not constructed therefore k cannot generate the group, and therefore X is not cyclic?

Thanks again for all the help, I'm glad to see I was on the right track but also glad to see that I was correct about being a bit off the mark. Sometimes it's hard to tell if I'm completely off my rocker when I'm studying alone.

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- *Follow-Ups:*
 - ◆ ***Re: Self Study problem help – Group theory***
 - ◇ *From:* quasi

- *References:*
 - ◆ ***Self Study problem help – Group theory***
 - ◇ *From:* abe . buckingham
 - ◆ ***Re: Self Study problem help – Group theory***
 - ◇ *From:* Gerry Myerson

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