

<<gag factor 17>> Reflexive Generalized Inverse Mathematics Stack Exchange

Prove that $\text{rank } A = \text{rank } G$ if and only if $AGA = A$ and $GAG = G$.

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Original URL: <https://tools.orientwatchusa.com/gag-factor-17.pdf>

Sep 26 2022 Definition G is a generalized inverse of A if and only if $AGA = A$ and $GAG = G$ is said to be reflexive if and only if $GAG = G$.

I was trying to solve the problem If A is a matrix and G be its generalized inverse then G is reflexive if and only if $\text{rank } A = \text{rank } G$ Sep 20 2015 Your proof of the second part works perfectly moreover you can simply omit the reasoning $(AG)^2 = AG$ since this is exactly what you've done in part 1 Dec 7 2011 We have a group AG where a is an element of AG .

Then we have a set $Z = \{g \in G \mid ga = ag\}$ called the centralizer of a . If I have an $x \in Z$ how Sep 7 2024 This is an exercise in Weibel's "Homological Algebra" chapter 6 on group cohomology. For reference this is on Page 183.

So the question was asking us to Dec 5 2018 Try checking if the element ghg^{-1} you thought of is in $C_G(g)$ and then vice versa Jan 3 2019 The stabilizer subgroup we defined above for this action on some set $A \subseteq G$ is the set of all $g \in G$ such that $gAg^{-1} = A$ which is exactly the normalizer subgroup $N_G(A)$! Jul 1 2016 I am trying to prove that $gAg^{-1} \subseteq A$ implies $gAg^{-1} = A$ where A is a subset of some group G and g is a group element of G .

This is stated without proof in Dummit and Foote Disclaimer This is not exactly an explanation but a relevant attempt at understanding conjugates and conjugate classes Sep 27 2015 Let H be a subgroup of G . Now if H is not normal if any element $g \in G$ doesn't commute with H .

Now we want to find if not all $g \in G$ then which are the elements of G that commute with every element of H ? they are the normalizer of H . i.e. the elements of G that commute with H when asked to commute.

Hence $N_G(H) = \{g \in G \mid gH = Hg\}$ Now Centralizer of an element $a \in G$ Jul 9 2015 $(gag^{-1})^2 = g^2 a^2 g^{-2} = g^2 a^2 g^{-2}$ $gag^{-1}gag^{-1} = g a^2 g^{-1}$ I'm stuck at this point Is it correct so far? is.

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