

# %gag on this 27% 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-on-this-27.pdf>

Sep 26 2022 Definition  $G$  is a generalized inverse of  $A$  if and only if  $AGA = A$ .  $G$  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  $(GAG)^2 = GAG$  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's "Discrete Mathematics". 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  $(gag^{-1})^2 = g^2 a^2 g^{-2} = g^2 a^2 g^{-2}$   
 $gag^{-1}gag^{-1} = g a^2 g^{-2}$   
 $gag^{-1}gag^{-1} = g a^2 g^{-2}$   
 I'm stuck at this point. Is it correct so far? is.

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