

# Centralizers, Normalizers and the Center

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If  $H$  is a subgroup of  $G$  is it true that

$Z(G)$  is a subgroup of  $C_H(G)$  which is a subgroup of  $N_H(G)$ ?

I believe that it is.

If  $H$  is just a subset of  $G$  the above is not necessarily true, right?

Are there any easy examples of the above 2 cases?

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- *Follow-Ups:*
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◇ *From:* Arturo Magidin
  - ◆ ***Re: Centralizers, Normalizers and the Center***  
◇ *From:*
  - ◆ ***Re: Centralizers, Normalizers and the Center***  
◇ *From:* Lawrence House
  - ◆ ***Re: Centralizers, Normalizers and the Center***  
◇ *From:* abe . buckingham
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