

Abstract Algebra

Basic properties of groups

$$h = eh = (\tilde{h}g)h = \tilde{h}(gh) = \tilde{h}e = \tilde{h}$$

$$(gh)(h^{-1}g^{-1}) = g(hh^{-1})g^{-1} = geg^{-1} = gg^{-1} = e$$

$$hg = e(hg) = (g^{-1}g)(hg) = (g^{-1}(gh))g = (g^{-1}e)g = g^{-1}g = e$$

Structure Of Abstract Algebra

JA Banks



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