

<p>We don't talk about Bruno, no, no, no!</p> <p>We don't talk about Bruno... but</p> <p>It was my wedding day</p> <p>It was our wedding day</p> <p>We were getting ready, and there wasn't a cloud in the sky</p> <p>No clouds allowed in the sky</p> <p>Bruno walks in with a mischievous grin-</p> <p>Thunder!!</p> <p>You telling this story, or am I?</p> <p>I'm sorry, mi vida, go on</p> <p>Bruno says, "It looks like rain"</p> <p>Why did he tell us?</p> <p>In doing so, he floods my brain</p> <p>Abuela, get the umbrellas</p> <p>Married in a hurricane</p> <p>What a joyous day... but anyway</p> <p>We don't talk about Bruno, no, no, no!</p> <p>We don't talk about Bruno!</p> <p>Hey! Grew to live in fear of Bruno stuttering or stumbling</p> <p>I could always hear him sort of muttering and mumbling</p> <p>I associate him with the sound of falling sand, ch-ch-ch</p> <p>It's a heavy lift, with a gift so humbling</p> <p>Always left Abuela and the family fumbling</p> <p>Grappling with prophecies they couldn't understand</p> <p>Do you understand?</p> <p>A seven-foot frame</p> <p>Rats along his back</p> <p>When he calls your name</p> <p>It all fades to black</p> <p>Yeah, he sees your dreams</p> <p>And feasts on your screams (hey!)</p> <p>We don't talk about Bruno, no, no, no! (We don't talk about Bruno, no, no, no!)</p> <p>We don't talk about Bruno (we don't talk about Bruno!)</p> <p>He told me my fish would die</p> <p>The next day: dead! (No, no!)</p> <p>He told me I'd grow a gut!</p> <p>And just like he said... (no, no!)</p> <p>He said that all my hair would disappear, now look at my head (no, no! Hey!)</p> <p>Your fate is sealed when your prophecy is read!</p>	<p>We can learn about Sylow, no, no, no!</p> <p>We can learn about Sylow... but</p> <p>We were in class one day</p> <p>We were in class one day</p> <p>Looking at A5 and we needed to prove it's simple.</p> <p>Proving A5 is simple.</p> <p>It's size is 60, so it seems real tricky-</p> <p>Oh no!!</p> <p>Just listing subgroups wouldn't fly.</p> <p>The list would go on and on</p> <p>The teacher brings a new theory</p> <p>What is this about?</p> <p>To keep us from looking dreary</p> <p>It's got lots of groups throughout</p> <p>This topic made him seem cheery</p> <p>A brand new subject to dissect-</p> <p>We can learn about Sylow, woah, woah, woah!</p> <p>We can learn about Sylow!</p> <p>Hey! Everybody knows Lagrange's Theorem is something</p> <p>The sizes of subgroups always seem to be clumping</p> <p>But every factor of the group size does not appear, no, no, no</p> <p>One example of this is the group called A4</p> <p>There's no subgroup with the size six coming before</p> <p>The converse of Lagrange's Theorem doesn't go as planned.</p> <p>Do you understand?</p> <p>If a prime power <math>p</math></p> <p>To the <math>k</math> divides the size</p> <p>There'll always be</p> <p>That subgroup we realize</p> <p><math>n \text{-sub-} p</math> we let</p> <p>be the amount we get</p> <p>We can learn about Sylow, woah, woah, woah!</p> <p>(We can learn about Sylow, woah, woah, woah!)</p> <p>We can learn about Sylow (We can learn about Sylow!)</p> <p>These subgroups always exist.</p> <p>There's never none!</p> <p>And they are all conjugate!</p> <p>Even if there's a ton! (Woah, woah!)</p> <p><math>np</math> divides the index of the subgroup we just done</p> <p>And <math>n \text{-sub-} p</math> in mod <math>p</math> is just one.</p>
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<p>He told me that the life of my dreams would be promised, and someday be mine</p> <p>He told me that my power would grow, like the grapes that thrive on the vine</p> <p>Óye, Mariano's on his way</p> <p>He told me that the man of my dreams would be just out of reach</p> <p>Betrothed to another</p> <p>It's like I hear him now</p> <p>Hey sis, I want not a sound out of you (it's like I can hear him now)</p> <p>I can hear him now</p> <p>Um, Bruno...</p> <p>Yeah, about that Bruno...</p> <p>I really need to know about Bruno...</p> <p>Gimmie the truth and the whole truth, Bruno (Isabella, your boyfriend's here)</p> <p>Time for dinner!</p> <p>*everyone together (I'm fine)</p> <p>He's here!</p> <p>Don't talk about Bruno, no! (Why did I talk about Bruno?)</p> <p>Not a word about Bruno</p> <p>I never should've brought up Bruno!</p>	<p>Set group G with a size of fifteen as an object we need to contrive.</p> <p><math>n_{\text{sub-}3}</math> is one in mod 3 and we know it's a factor of five.</p> <p><math>n_3</math> is one inside this case.</p> <p>If <math>n_p</math> becomes one, then it seems we have found something neat.</p> <p>Subgroups that are normal.</p> <p>Then the group's not simple.</p> <p>With this, we learn things about groups (then the group can't be simple)</p> <p>The group's not simple.</p> <p>Wow, Sylow.</p> <p>That's really cool, Sylow.</p> <p>I really wanna know about Sylow.</p> <p>Gimme the proof of all three parts, Sylow (I think I see some romance here)</p> <p>I'm a sinner!</p> <p>*everyone together (<math>p</math> is prime)</p> <p>It's math!</p> <p>We learned about Sylow, woah! (I'm glad I learned about Sylow.)</p> <p>We just learned about Sylow.</p> <p>But this is only finite Sylow!</p>
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