Instructions: Do the Thinking Land and proof scratch draft of your group's Theorem on the your groups's AWW board. Then submit a group Latexed final version of your proof. Each group member is to fill in their group number on Bb's §3.6 GW in the wite comment box (so I can assign grades). One submission per group by the group's designated group submitter is sufficient as long as each group member's PIN is on the one submission; thus, write your PIN on your AWW Board.

Group 1. AWW Board Link. Exercise 3.6.1.
Prove that each point on or inside the circle whose equation is $(x-1)^2+(y-2)^2=4$ is also inside the circle whose equation is $x^2+y^2=26$. Recall, the point (a,b) is:

- inside the circle $(x-h)^2+(y-k)^2=r^2$ provided $(a-h)^2+(b-k)^2<r^2$
- on the circle $(x-h)^2+(y-k)^2=r^2$ provided $(a-h)^2+(b-k)^2=r^2$.

Group 2. AWW Board Link. Exercise 3.6.3a.
Prove that for each integer a, if 3 does not divide a, then 3 divides $2a^2+1$.
Latex help: $3 \nmid a$ and $3 \mid (2a^2+1)$.
Group 3. AWW Board Link. Exercise 3.6.4.
Prove that for each real number x and each irrational number q, one has that $(x+q)$ is irrational or $(x-q)$ is irrational.

Proof. cut this out and put your proof here ■