

[11-05-25-T21]

Assignment

We in class we had come to suspect that

A member of Z_n that is either a factor of n or the multiple of a factor of n cannot be a generator of Z_n . (1)

To put this another way (its contrapositive),

If a member of Z_n is a generator of Z_n , then that member of Z_n is neither a factor of n nor the multiple of a factor of n . (2)

The converse of (2) is

If member of Z_n is neither a factor of n nor the multiple of a factor of n , then that member of Z_n is a generator of Z_n . (3)

Try to explain why (2) is true. Try to explain why (3) is true.