RSA Example

4- Using the Euclidean algorithm, find the multiplicative inverse of a. 1234 mod 4321 e. 550 mod 1769

In a public-key system using RSA, you intercept the cipher text C=10 sent for a user whose public key is c=5, n=35. What is the plaintext M?

Assume that Bob has public RSA key (n = 65, e = 5). Show that Bob's private key is (d = 29)

Alice wants to send the message m = 11 to Bob. She encrypts the message using Bob's public key. What is the value of the ciphertext that Alice sends to Bob?

David has also sent an encrypted message to Bob. The ciphertext value that Bob receives from David is 19. Showing all your working, use Bobs key to decrypt this ciphertext and recover the value of David's message.

Ouestion Three

What is 11-1 (mod 29)? Show your work.?

Question one

1- Bob has public RSA key (n = 65, e = 5) Show that Bob's private key is (d = 29)2-What is difference between rule based anomaly interest and the second state of the

Answer:





