✓ **Congratulations! You passed!**

TO PASS 80% or higher

[Keep Learning]

GRADE
100%

Public Key or Asymmetric Encryption

TOTAL POINTS 3

1. Which of the following do asymmetric cryptosystems provide? Check all that apply.

    `1 / 1 point`

    ☐ Availability

    ☑ Authenticity

    > ✓ **Correct**
    > Exactly! Confidentiality is provided by the encryption and decryption functionality, while authenticity and non-repudiation are ensured by the signing and verification processes.

    ☑ Confidentiality

    > ✓ **Correct**
    > Exactly! Confidentiality is provided by the encryption and decryption functionality, while authenticity and non-repudiation are ensured by the signing and verification processes.

    ☑ Non-repudiation

    > ✓ **Correct**
    > Exactly! Confidentiality is provided by the encryption and decryption functionality, while authenticity and non-repudiation are ensured by the signing and verification processes.

2. What advantages do asymmetric algorithms have over symmetric ones?

    `1 / 1 point`

    ◉ They allow secure communication over insecure channels.

    ○ They're easier to implement.

    ○ They have very fast performance.

    ○ They're more secure.

    > ✓ **Correct**
    > Wohoo! By exchanging public keys for encrypting data, asymmetric encryption securely exchanges information over untrusted channels.

3. What's a common application for asymmetric algorithms?

    `1 / 1 point`

    ◉ Secure key exchange

    ○ Secure password storage

    ○ Random number generation

    ○ Full disk encryption

    > ✓ **Correct**
    > You nailed it! Asymmetric encryption schemes are perfect for securely exchanging small amounts of data over untrusted networks by exchanging public keys that are used for encrypting data.