IPv6 Addresses Worksheet

1. Why do we need IPv6 addresses?

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2. What techniques are used at present to cope with the present problem with IPv4 addresses?

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3. Map the following IPv4 addresses to IPv6:

a. 112.109.82.131 _____

b. 104.26.14.163 _____

c. 162.241.226.151 _____

4. Compress the following IPv6 addresses:

a. 34F6: 0000 : 0000 : 0000 : 0000 : 0001: 0095 : 9000

_____

b. 254B:1001:0000:0000:1:0000:0000:BBBB

_____

c. 0000:0000:0000:0000:0000:FFFF:C0A8:0001

_____

5. Which of the IPv6 addresses above is a valid IPv4 address. Justify your answer.

Address: _____

Justification:

_____

_____

_____