**Homework #1**

Q1. In base 36, there are 36 digits 0, 1, 2, 3, 4…9, A, B, C, D… X, Y, Z.

What is the equivalent number in radix 10 for (ADD)36

Q2. What is the radix of the numbers if the solution to the quadratic equation x2-10x+26=0 is x=4 and x=7?

Q3. Fill the multiplication table for base seven.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
| 0 |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| 3 |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |