HW11

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Q1

```
=== BVP Solution Comparison ===
+-----+------------------+--------------------+----------------------+
|  x  |  Shooting Method |  Finite Difference |  Variation Approach  |
+=====+==================+====================+======================+
| 0   |        1         |         1          |          1           |
+-----+------------------+--------------------+----------------------+
| 0.1 |       1.01663    |        1.3232      |         1.02925      |
+-----+------------------+--------------------+----------------------+
| 0.2 |       1.05921    |        1.59611     |         1.07422      |
+-----+------------------+--------------------+----------------------+
| 0.3 |       1.12431    |        1.81543     |         1.13492      |
+-----+------------------+--------------------+----------------------+
| 0.4 |       1.20902    |        1.98021     |         1.21133      |
+-----+------------------+--------------------+----------------------+
| 0.5 |       1.31052    |        2.09168     |         1.30347      |
+-----+------------------+--------------------+----------------------+
| 0.6 |       1.42623    |        2.15291     |         1.41133      |
+-----+------------------+--------------------+----------------------+
| 0.7 |       1.55445    |        2.16846     |         1.53492      |
+-----+------------------+--------------------+----------------------+
| 0.8 |       1.69376    |        2.14393     |         1.67422      |
+-----+------------------+--------------------+----------------------+
| 0.9 |       1.84272    |        2.0856      |         1.82925      |
+-----+------------------+--------------------+----------------------+
| 1   |        2         |         2          |          2           |
+-----+------------------+--------------------+----------------------+
PS C:\Users\timmy\Desktop\E94101046作業十一> []
```