

time t_0

time t_1

time t_2

Differential Equation

Solution 1
[\approx New Equation]

Solution 2
[\approx New Equation]

Numerical
Solver

```
graph LR; subgraph t0 [time t0]; DE[Differential Equation]; end; subgraph t1 [time t1]; S1["Solution 1  
[≈ New Equation]"]; end; subgraph t2 [time t2]; S2["Solution 2  
[≈ New Equation]"]; end; NS((Numerical Solver)); DE --> NS; NS --> S1; S1 --> S2;
```