

Problem 4

$$e^{-0.5x}(4-x) - 2 = 0$$

$$\Rightarrow f(x) = (4-x) - 2e^{0.5x}$$

$$f'(x) = -1 - e^{0.5x}$$

```
>> T4_20110065(5, 10e-6)
```

```
ans =
```

```
0.8857
```

```
>> T4_20110065(100, 10e-6)
```

```
ans =
```

```
0.8857
```

```
>> T4_20110065(-100, 10e-6)
```

```
ans =
```

```
0.8857
```