0 tolevence =  $10e^{-5}$ root = 0.61906

Iterations = 4 iterations = 3 Starting value = 0 Starting value = 0.5

root = 1.51213 iterations = 3 Staxting value = 1.5

2) Root close to 4.5 = 4.4936139 tolerence = 10e-7 1terations = 3

> Root close to 7.7 = 7.72525183tolerance = 10e-7Iterations = 4

3  $n_0 = 4.51$   $n_0 = 7.69$  $n_1 = 4.5$   $n_1 = 7.7$ 

> to levence = 10e-5 to levence = 10e-7 iterations = 3 iterations = 5

root = 4.49309 root = 7.72525

22 + 6e-x - y=0.

THE SECOND SECON	PAGE NO.: DATE
(3) Forming a conve	rging function
$f(n) = 2n^2 + 6e^{-x} - u$	= 0 .
$g_1(n) = -4\sqrt{1-2n^2}$	
g2(n) = 4-6e	7C
$\left  \frac{1}{2} \right $	1/1/10/2

$$\frac{q'(n)}{3e^{-x}} = \frac{3e^{-x}}{3e^{-x}}$$

$$\frac{1}{\sqrt{2}} \frac{3e}{\sqrt{4-6e^{-2}}}$$

$$\frac{1}{\sqrt{2}} \frac{3e}{\sqrt{4-6e^{-2}}}$$

$$\frac{1}{\sqrt{2}} \frac{3e}{\sqrt{4-6e^{-2}}}$$

$$N_0 = 0.5$$

$$N_0 = 0.5$$

$$N_0 = 0.5$$

$$N_0 = 0.5$$

Using giln)