CSC505 – HW 1
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The following two problems were solved here with R and the following code :


```
f1 <- function( x ) <<function f>>
g1 <- function( x ) <<function g>>
rt <- function( x ) ( f1(x) - g1(x) )


png(filename="plot1.png")
plot  ( 10:100, f1(  10:100), pch=21, col="red"  )
points( 10:100, g1(  10:100), pch=21, col="blue"  )

root = uniroot( rt, c(10,100))$root
abline( v = root )
print( root )
```


1.) The computed root here was n=26 and the following plot was produced with f1 in red and and
g1 in blue. It is clear that f1 is the faster growing equation.
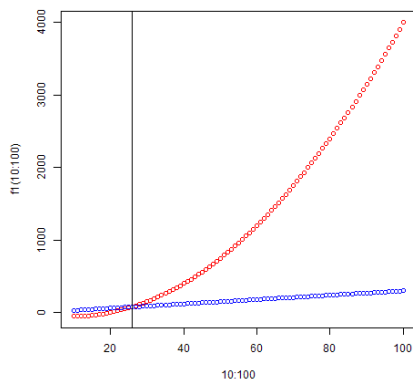
2.) The computed root in the second set of equations was n=98.794 and the following plot was
produced with f2 in red and g2 in blue. It is clear that in this case g2 is the faster growing
equation.