**Lab 1 Pseudocode**

Input R

Remark R is the number for which

Remark we wish sqrt(R)

xold = R / 2

for(int count = 1; count <= 100; count++)

xnew = xold - (xold\*xold - R)/ (2\*xold)

Remark "Test successive approximations"

if(Math.abs(xnew - xold) < 0.00001)

Print "the Square root of" + R + "is " + xnew

break

end if

let xold = xnew

end for loop

Remark Improved Version

Lab 1 Pseudocode

Begin Program Newton

Input R

Remark R is the number for which

Remark we wish sqrt(R)

xold = R / 2

do

temp = xold

xnew = xold - (xold\*xold - R)/ (2\*xold)

Remark "Test successive approximations"

let xold = xnew

while(Math.abs(xnew - temp) < 0.00001)

Print "the Square root of" + R + "is " + xnew

End Program Newton

http://www.ultimatecalculators.com/economic\_order\_quantity\_calculator.html

Conditional Expression Operator ( Java )

gross = hours <= 40 ? rate \* hours : 40\*rate+

(hours - 40)\*1.5\*rate;

replaces

if(hours <=40)

gross = rate \* hours;

else

gross = 40\*rate+(hours - 40)\*1.5\*rate;