#include<stdio.h>

double pr(double a)

{double b;

if (a<=50)

b=4.31-(a-40)\*(4.31-3.54)/10;

else b=3.54-(a-50)\*(3.54-2.99)/10;

return(b);}

#include<math.h>

void main()

{double c,k,h,t2,i=0;

double t1=55;

do{

c=3.0018/pr(t1);

k=0.35\* pow(1.1547,0.2)\*pow(17973.72874,0.6)\*pow(3.0018,0.36)\*pow(c,0.25);

h=0.994\*k\*0.6508/0.025;

t2=60-18836.63407\*(1/h+0.000344);

i=i+1;

t1=t2;}

while(i<20);

printf("%f\n",t1);

}