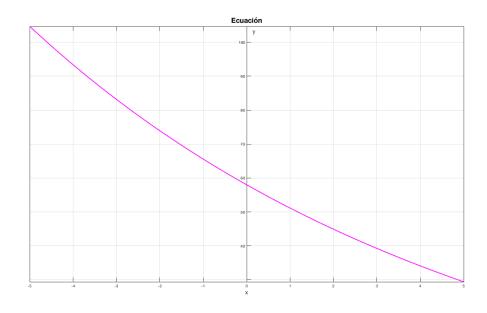
```
%Para la publicación del documento se utilizaron los siguientes datos:
eqnstr='667.38/x*(1-exp(-0.146843*x))-40';
xlstr='-1';
xhstr='16';
syms x;
%Para un uso general se descomentan las siquientes líneas
%eqnstr=input('Ingrese su función: ','s');
eqn(x)=str2sym(eqnstr);
%xlstr=input('Ingrese el límite menor para la cuatrisección: ','s');
%xhstr=input('Ingrese el límite superior para la cuatrisección:
 ','s');
xl=str2double(xlstr);
xh=str2double(xhstr);
found=false;
xr1ol=0;
xr2ol=0;
xr3ol=0;
if eqn(x1)*eqn(xh)<0
                                                       ppm2
    fprintf('aa
                          bb
                                       ppm1
                 err1
                                err2
                                                  err3\n');
    while found==false
        xr1=xl+(xh-xl)/4;
        xr2=xl+(xh-xl)/2;
        xr3=xl+(xh-xl)*3/4;
        fprintf('%f
                      %f
                                 %f
                                          %f
                                                  %f
                                                         %f
     f(n',xl,xh,xr1,xr2,xr3,abs(xr1-xr1ol),abs(xr2-xr2ol),abs(xr3-xr2ol)
xr3ol));
        if eqn(x1)*eqn(xr1)<0
            xh=xr1;
        elseif eqn(xr1)*eqn(xr2)<0</pre>
            xl=xr1;
            xh=xr2;
        elseif eqn(xr2)*eqn(xr3)<0</pre>
            x1=xr2;
            xh=xr3;
        elseif eqn(xr3)*eqn(xh)<0</pre>
            x1=xr3;
        end
        xr1ol=xr1;
        xr2ol=xr2;
        xr3ol=xr3;
        if abs(eqn(x1)*eqn(xh))<0.00000001
            found=true;
            if eqn(x1)<0.001
                answer=xl;
            else
                answer=xh;
            end
        end
    end
    figure('units','normalized','outerposition',[0 0 1 1]);
    fplot(eqn);
```

```
grid
    xlabel('x','FontSize',14);
    ylabel('y','FontSize',14);
    title('Ecuación', 'FontSize', 18);
    ax=qca;
    ax.XAxisLocation='origin';
    ax.YAxisLocation='origin';
    ax.Children.Color=[1 0 1];
    ax.Children.LineWidth=2;
    answer
else
    disp('Los límites deben ser de signo contrario');
end
aa
            bb
                         ppm1
                                         ppm2
                                                        ppm3
               err2
                                 err3
err1
-1.000000
              16.000000
                              3.250000
                                            7.500000
                                                           11.750000
 3.250000
              7.500000
                              11.750000
11.750000
              16.000000
                              12.812500
                                             13.875000
                                                             14.937500
                                3.187500
   9.562500
                6.375000
13.875000
              14.937500
                              14.140625
                                             14.406250
                                                             14.671875
   1.328125
                0.531250
                                0.265625
14.671875
              14.937500
                              14.738281
                                             14.804688
                                                             14.871094
   0.597656
                0.398438
                                0.199219
14.738281
              14.804688
                              14.754883
                                             14.771484
                                                             14.788086
   0.016602
                0.033203
                                0.083008
              14.788086
                              14.775635
14.771484
                                             14.779785
                                                             14.783936
   0.020752
                0.008301
                                0.004150
14.779785
              14.783936
                              14.780823
                                                             14.782898
                                             14.781860
   0.005188
                0.002075
                                0.001038
                                             14.780304
14.779785
              14.780823
                              14.780045
                                                             14.780563
   0.000778
                0.001556
                                0.002335
14.780045
              14.780304
                              14.780109
                                             14.780174
                                                             14.780239
                                0.000324
   0.000065
                0.000130
14.780174
              14.780239
                              14.780190
                                             14.780207
                                                             14.780223
   0.000081
                0.000032
                                0.000016
answer =
```

14.7802



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