

MATLAB Programming for Engineers | (5th Edition)

Chapter 3, Problem 2E

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Step-by-step solution

Step 1 of 5

Type the following MATLAB code in MATLAB command window.

```
x = linspace(0, 10, 100);  
f1 = exp(-0.5.*x) .* sin(2.*x);  
plot(x,f1,'b-', 'lineWidth', 2);  
hold on;  
f2 = exp(-0.5.*x) .* cos(2.*x);  
plot(x,f2,'r--', 'lineWidth', 3);  
hold off;  
title('plot of function');  
xlabel('\bf{t{x}}');  
ylabel('\bf{t{y}}');  
legend('f1','f2');  
grid on;
```

Comment

Step 2 of 5

After typing the MATLAB code in command window, press enter to execute the above code. The resulting plot of function after executing the command is shown in Figure 1.

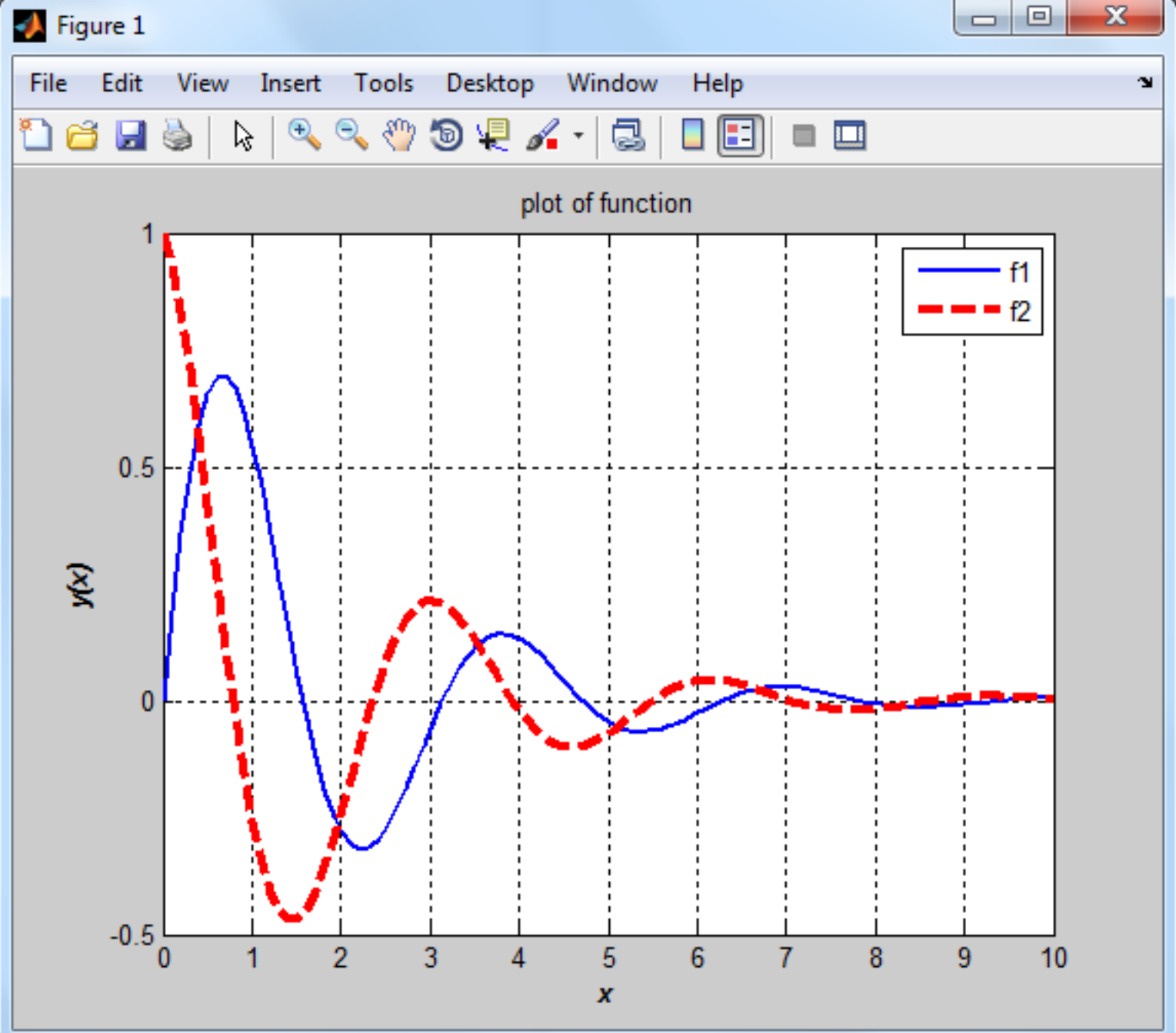


Figure 1: Plot of function

Comment

Step 3 of 5

The given functions including a title, axis labels, legend and grid on each plot is plotted on a linear set of axes.
Modify the plot using MATLAB plot editing tools:
The plot shown in Figure 1 for the function $f_2(x) = e^{-0.5x} \cos 2x$ is modified to black dashed line with line width as 1. The procedure is as follows,
STEP 1:
Click on the plot editing tool as shown in Figure 2.

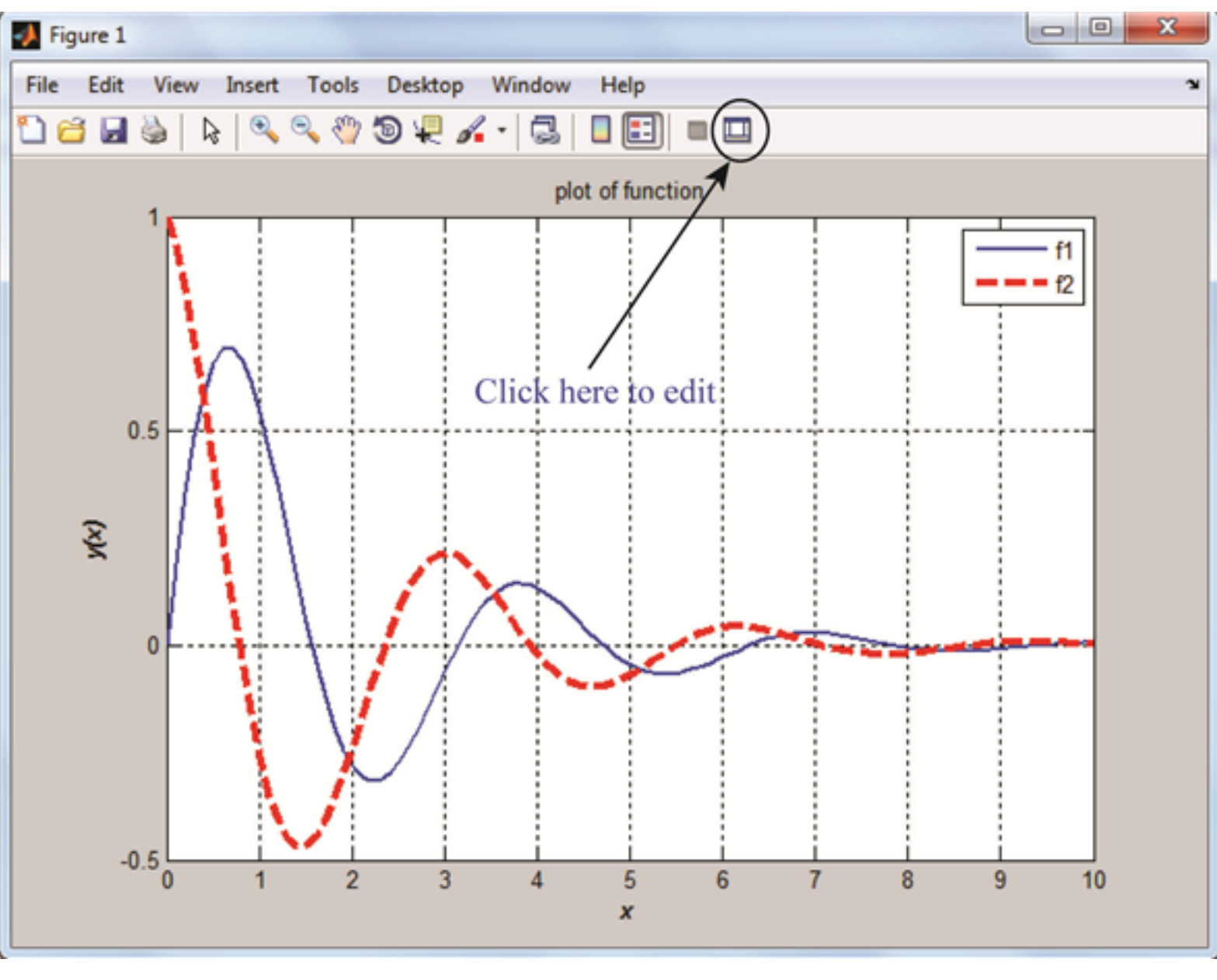


Figure 2: Edit the plot

STEP 2:
Select the required plot f1 to be edited as shown in Figure 3.

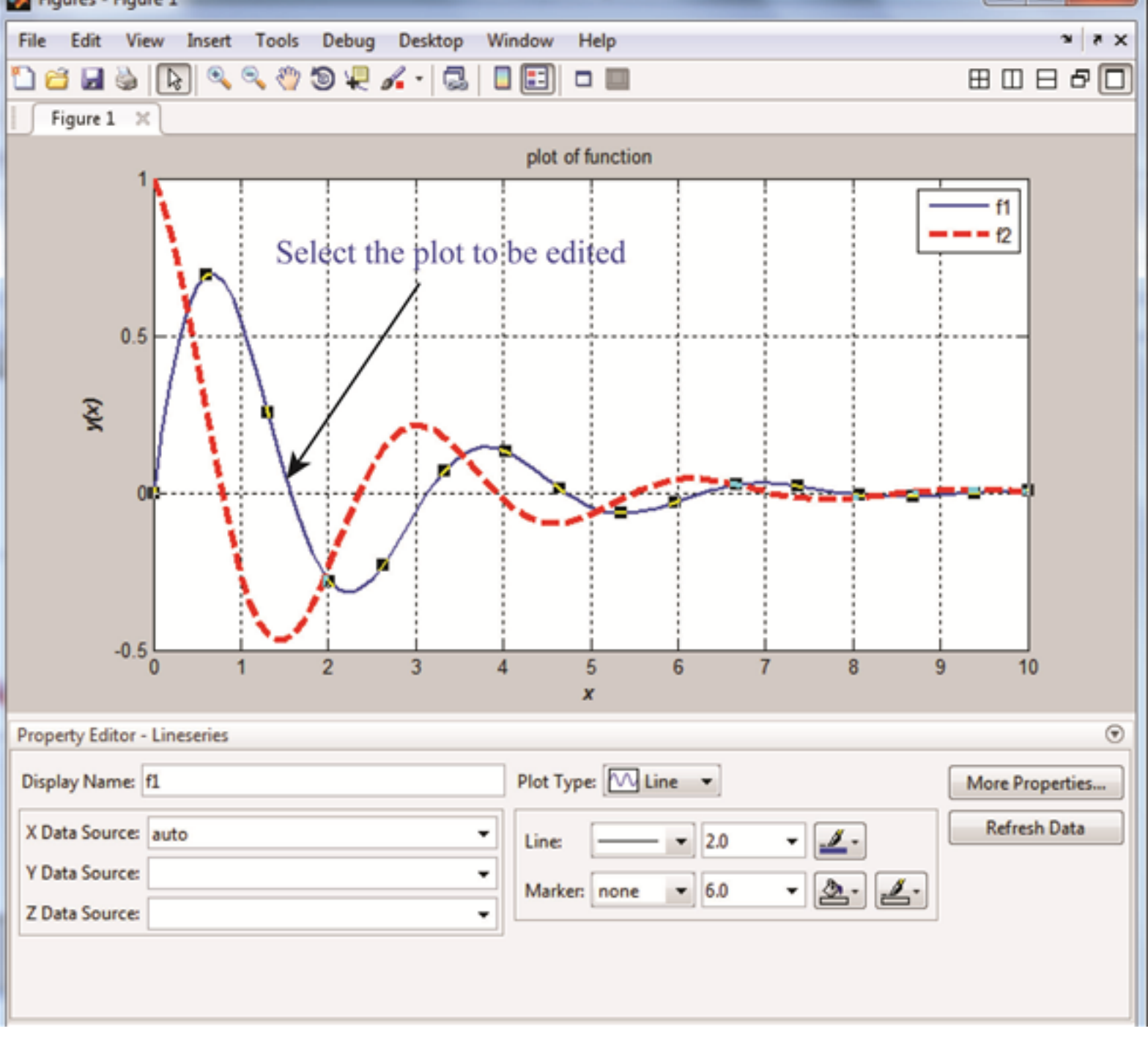


Figure 3: Select the plot to be edited

STEP 3:
Change the line width of the selected plot to 1 by clicking the line width dialog box and select 1.0 from the listed numbers as shown in Figure 4.

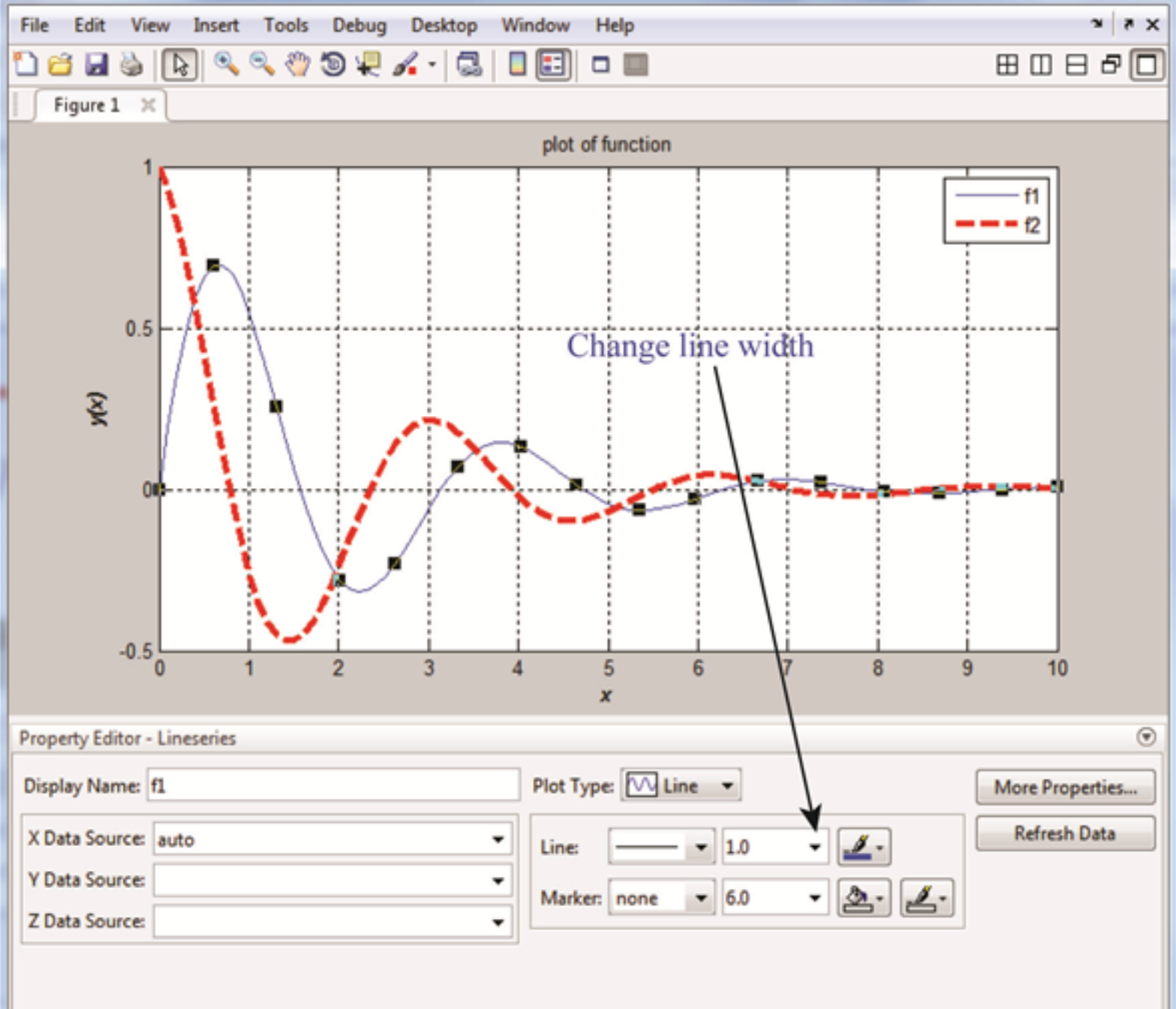


Figure 4: Change the line width of the plot

Comment

Step 4 of 5

STEP 4:
Change the line color of the plot to black by clicking the line color dialog box and select black color from the listed colors as shown in Figure 5.

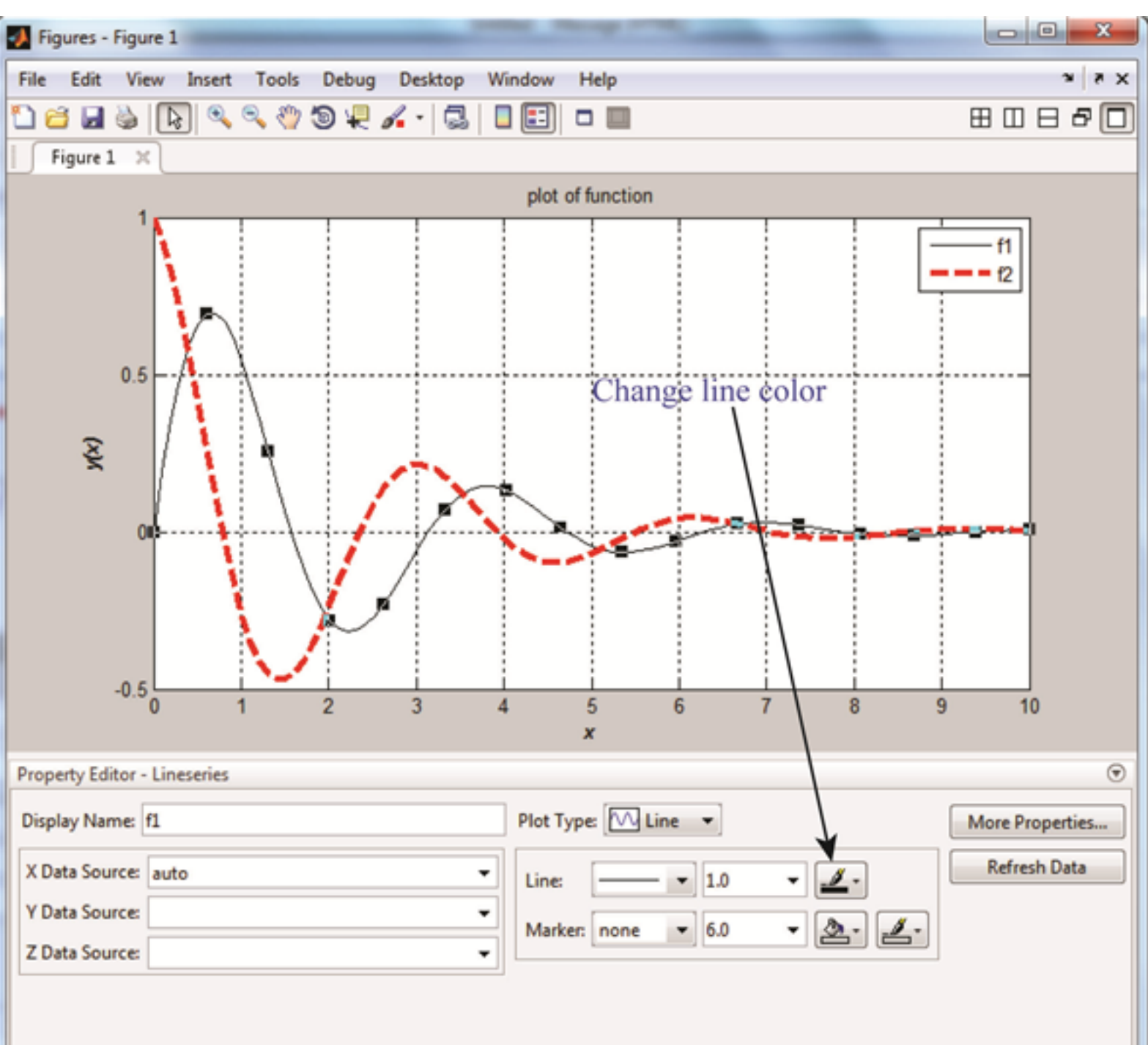


Figure 5: Change the line color of the plot

Comment

Step 5 of 5

The final plot after modification is shown in Figure 6.

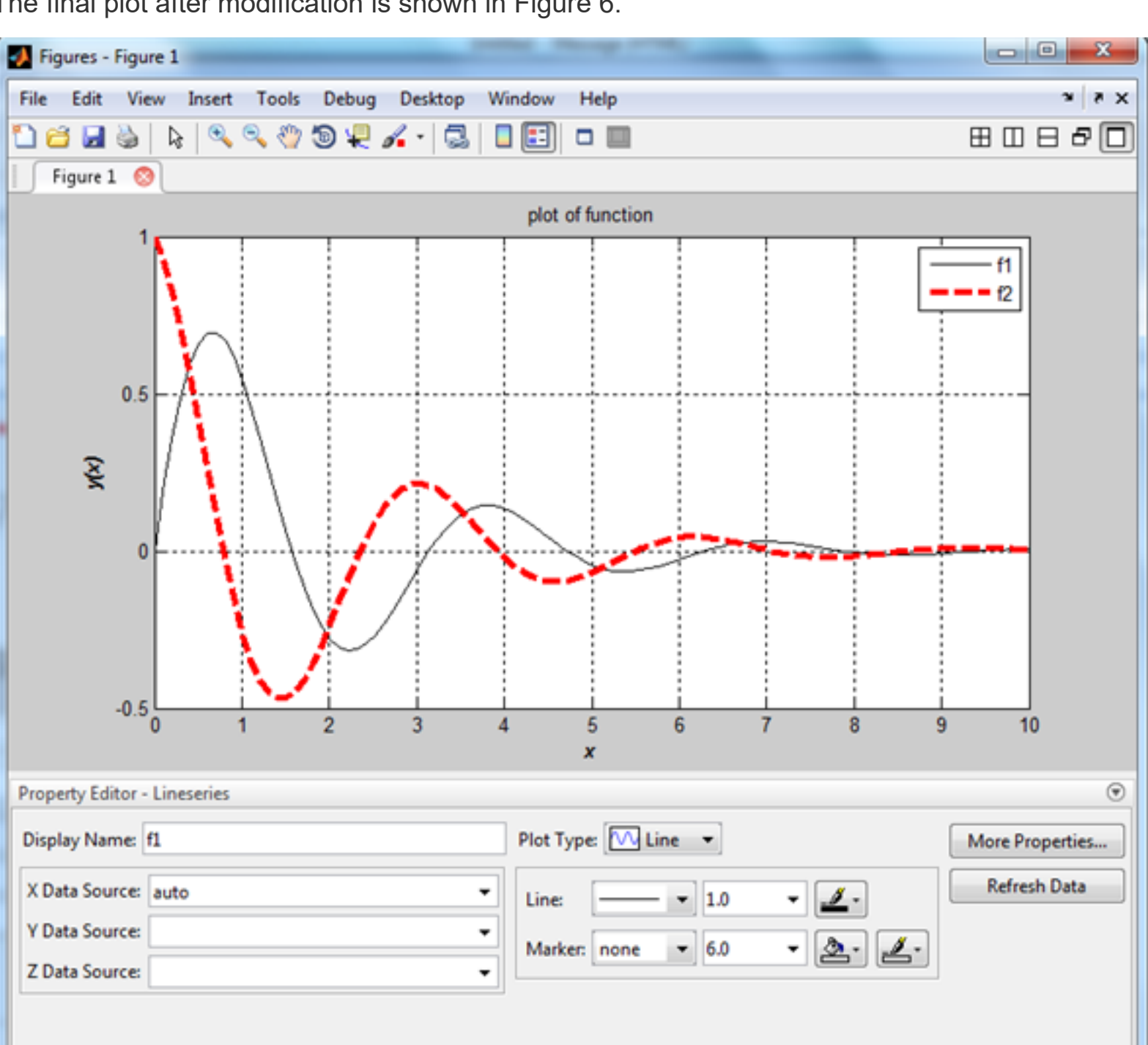


Figure 6: Final plot

Thus, required the plot is modified using the MATLAB plot editing tools.

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Chapter 3, Solution 6E

7205-3-6E AID: 1825 | 18/10/2013 The MATLAB functions produce a scalar output for one or more scalar inputs. The given function...

See solution

$$f(x) = x^4 - 3x^3 + 10x^2$$

The satellite's orbit form an ellipse with the earth positioned at one of the central points of the ellipse. The satellite's...

See solution

$$r = \frac{p}{1 - \epsilon \cos \theta}$$

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