

In Figure 1, the quadratic graph appears has been scaled so that it is 2 inches high. In Figure 2, it has been scaled to a width of 4 inches. The graphs were generated by MATLAB Version 6.1.0.450 Release 12.1 using the program given in Listing 1.

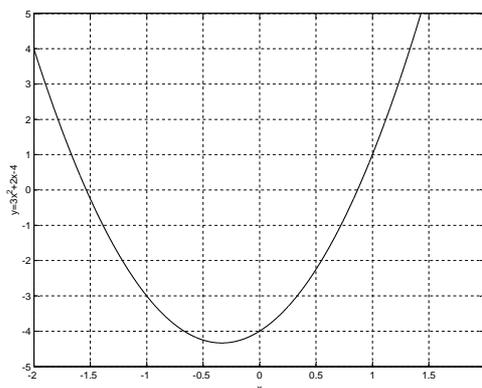


Figure 1: Here is a graph of a quadratic equation, 2 inches high.

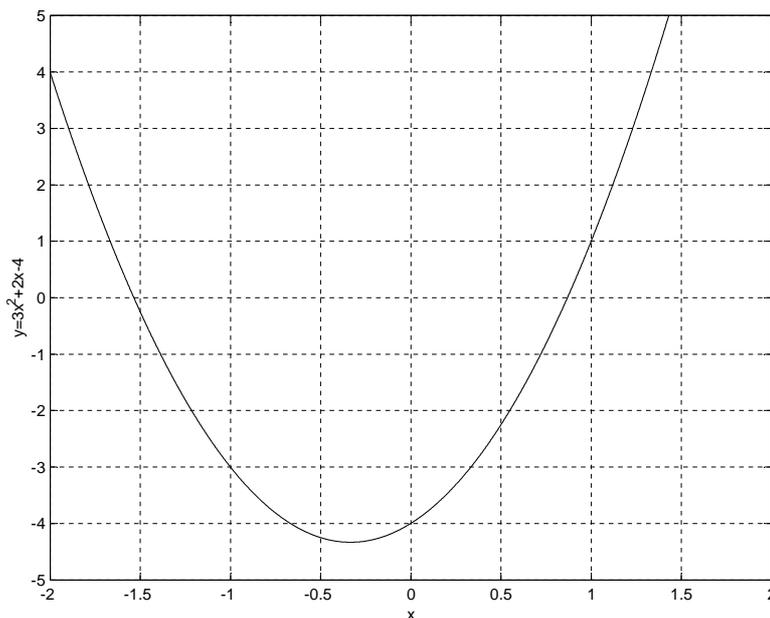


Figure 2: Here is another graph of the same quadratic equation, scaled to be 4 inches wide.

Listing 1: Matlab file `quadratic.m` for generating the quadratic plots

```
%This plots a simple quadratic  
clear %clear memory  
dx=1e-3; %Define the horizontal increment as 0.001.  
x=-2:dx:2; % The graph extends from -2 to +2.  
5 y=3 * (x.^2) + 2 * x - 4; %Define a parabola  
xaxis = 0;  
plot(x,y) %Plot y and the x-axis.  
axis([-2 2 -5 5])  
grid  
10 xlabel('x'); %Set plot labels  
ylabel('y=3x^2+2x-4');  
%axis([0 4*T*1e9 -5 10]) %Rescale y-axis
```