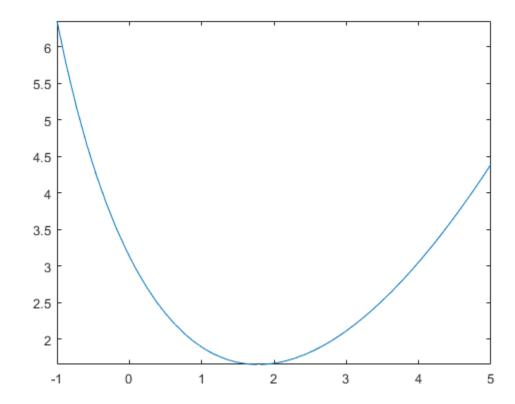
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close all	
clear all	
clc	
% Ben Ridenbaugh	
% Homework 3	

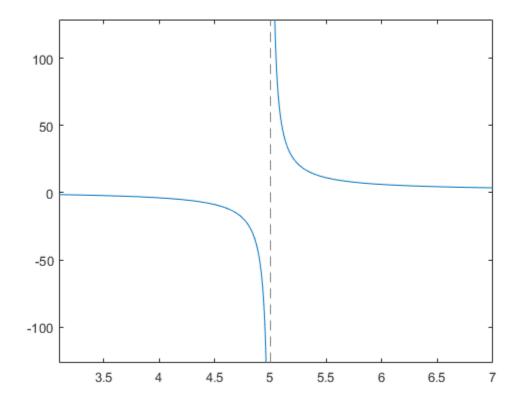
# **Problem 1**

```
figure  fplot('((x^2)-3*x+7)/sqrt(2*x+5)',[-1\ 5])  Warning: Char input to fplot will be removed in a future  release. \ Use \ fplot(@(x)((x.^2)-3.*x+7)./sqrt(2.*x+5)) \ instead.
```



## **Problem 11**

```
figure  \begin{split} &\text{fplot}(\,|\,((\mathbf{x}^2)+3*\mathbf{x}-5)/((\mathbf{x}^2)-3*\mathbf{x}-10)\,|\,,[-1\ 2.9]\,) \\ &\text{fplot}(\,|\,((\mathbf{x}^2)+3*\mathbf{x}-5)/((\mathbf{x}^2)-3*\mathbf{x}-10)\,|\,,[3.1\ 7]\,) \\ &\text{Warning: Char input to fplot will be removed in a future } \\ &\text{release. Use } &\text{fplot}(@(\mathbf{x})((\mathbf{x}.^2)+3.*\mathbf{x}-5)./((\mathbf{x}.^2)-3.*\mathbf{x}-10)) \\ &\text{instead.} \\ &\text{Warning: Char input to fplot will be removed in a future } \\ &\text{release. Use } &\text{fplot}(@(\mathbf{x})((\mathbf{x}.^2)+3.*\mathbf{x}-5)./((\mathbf{x}.^2)-3.*\mathbf{x}-10)) \\ &\text{instead.} \\ \end{split}
```



## **Problem 24**

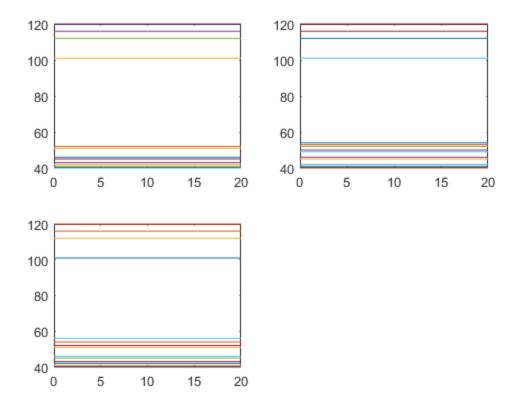
Warning: Function behaves unexpectedly on array inputs. To improve performance, properly vectorize your function to return an output with the same size and shape as the input arguments.

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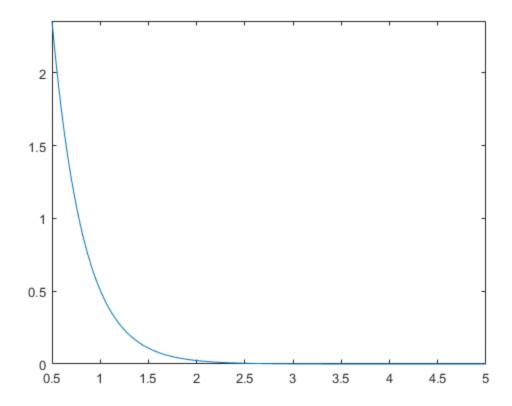
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# **Problem 27**

```
 \begin{array}{l} r=4; \\ 1=1.3; \\ v=12; \\ figure \\ fplot(@(t)(v/r)*(1-exp((-r*t)/l)),[0~0.5]) \\ fplot(@(t)exp((-r*t)/l)*(v/r)*(exp((.5*r)/l)-1),[0.5~5]) \end{array}
```



# **Problem 36**

```
l=16;
a=6;
b=a;
w1=400;
w2=200;
ra=(w1*a*(2*1-a)+w2*c^2)/2*1;
rb=(w2*c*(2*1-c)+w1*a^2)/2*1;
figure
fplot([0 6],ra*x-((w1*x^2)/2))
fplot([6 12],ra*x-((w1*a)/2)*(2*x-a))
fplot([6 26],ra*((1-x)-(w2(1-x)^2)/2))
Undefined function or variable 'c'.
Error in HW3 (line 39)
ra=(w1*a*(2*1-a)+w2*c^2)/2*1;
```

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