Table of Contents

	1
oblem 1	
	1
	1
oblem 21	3
	3
	3
oblem 24	
tra Problem 1	5
tra Problem 2	5
ose all	
ear all	
С	
en Ridenbaugh	
GR 1101	
W 6	

Problem 1

a

```
y=problemlfunction(-1.5);
y=problemlfunction(5);

y =
    25.7595

y =
    33.4695
```

b

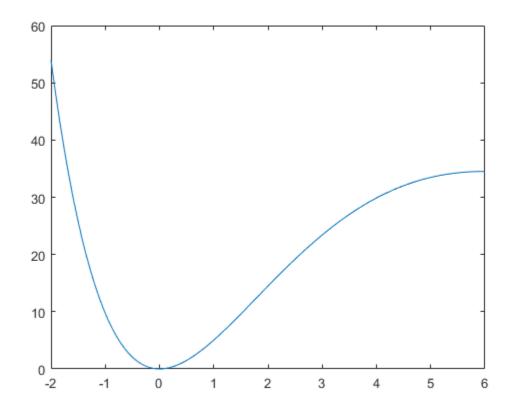
```
x=linspace(-2,6);
figure
plot(x,problem1function(x))

y =
   Columns 1 through 7
```

53.9347	48.3690	43.2238	38.4766	34.1059	30.0914	26.4132		
Columns 8 through 14								
23.0529	19.9924	17.2148	14.7038	12.4437	10.4199	8.6182		
Columns 15	through	21						
7.0251	5.6278	4.4140	3.3722	2.4911	1.7604	1.1699		
Columns 22	through	28						
0.7101	0.3719	0.1466	0.0262	0.0028	0.0691	0.2180		
Columns 29	through	35						
0.4429	0.7375	1.0959	1.5124	1.9816	2.4986	3.0586		
Columns 36	through	42						
3.6571	4.2898	4.9528	5.6422	6.3545	7.0864	7.8347		
Columns 43	through	49						
8.5965	9.3690	10.1497	10.9361	11.7260	12.5172	13.3078		
Columns 50	through	56						
14.0960	14.8800	15.6583	16.4294	17.1920	17.9448	18.6867		
Columns 57	through	63						
19.4167	20.1337	20.8370	21.5257	22.1991	22.8566	23.4976		
Columns 64	through	70						
24.1217	24.7283	25.3171	25.8878	26.4401	26.9737	27.4885		
Columns 71	through	77						
27.9844	28.4611	28.9188	29.3573	29.7766	30.1768	30.5580		
Columns 78	through	84						
30.9203	31.2636	31.5883	31.8945	32.1823	32.4519	32.7037		
Columns 85	through	91						
32.9377	33.1542	33.3535	33.5360	33.7017	33.8511	33.9845		
Columns 92	through	98						
34.1021	34.2043	34.2913	34.3635	34.4213	34.4650	34.4948		

```
Columns 99 through 100
```

34.5112 34.5144



Problem 21

a

```
y=AddVecPol(5,23,12,40);

r =
    16.8451

th =
    35.0215
```

b

y=AddVecPol(6,80,15,125);

```
r =
    19.7048

th =
    112.5663
```

Problem 24

```
y=CartToPolar(14,9);
y=CartToPolar(-11,-20);
y=CartToPolar(-15,4);
y=CartToPolar(13.5,-23.5);
th =
 32.7352
rad =
  0.5713
th =
 241.1892
rad =
  4.2095
th =
 104.9314
rad =
  1.8314
th =
 330.1240
```

```
rad = 5.7618
```

Extra Problem 1

```
y=CartToPolar2(1,1);
y=CartToPolar2(1,-1);
y=CartToPolar2(-1,1);
y=CartToPolar2(-1,-1);

th =
    45

th =
    315

th =
    135

th =
    225
```

Extra Problem 2

```
y=quadroots(1,0,4);
y=quadroots(1,4,4);

uppervalue =
     0.0000 + 2.0000i

lowervalue =
     0.0000 - 2.0000i

uppervalue =
     -2
```

lowervalue =

-2

Published with MATLAB® R2017a