1)

- a) Wildcard VALID alphanumeric
- b) WILDCARD VALID alphanumeric
- c) \*Wildcard INVALID asterisk not allowed
- d) 2Wildcard INVAILD variable name must start with a letter
- e) Wild\_card VALID alphanumeric and underscore; Underscore is allowed
- f) Wildcard!! INVALID Exclamation mark not allowed
- g) wild\_card valid alphanumeric and underscore; Underscore is allowed

2)

5x5, 5x2, 2x5, 3x3, 3x1, 2x8 and 7x6

C =

1	2	3	4	5
1 1	2	3	4	5
1	2	3	4	5
1	2	3	4	5
1	2	3	Δ	5

C =

C =

1 2 3 4 5 1 2 3 4 5

>> C=[y;y;y]

C =

7 8 9 7 8 9 7 8 9

>> C=[y']

C =

7 8 9

>> C=[x,y; x,y]

$$>> C=[x,y; x,y]$$

C =

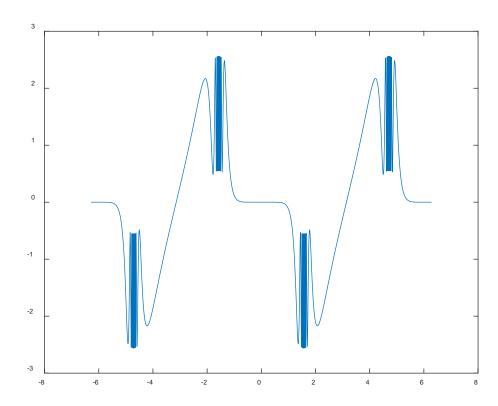
1	2	3	4	5	7	8	9
1	2	3	4	5	7	8	9

C =

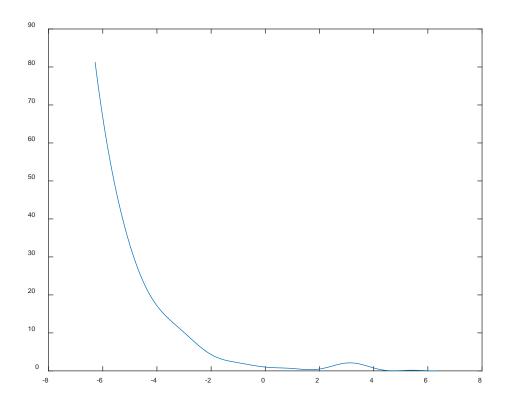
3)

- a) sin(tan(x)) tan(sin(x))
- b)  $\exp(-0.7.*x)+(1-\cos(x))./(1.0+(\tan(x)).^2)$
- c)  $(1+x./(x-0.5))./(1+(3.1.*x.*exp(-x)+2)./(sin(x)-cos(x.^2).^2))$
- d) (3.0<sup>0</sup>.25)+log(2.1<sup>3</sup>.7) + atan(0.63) = **4.6234**

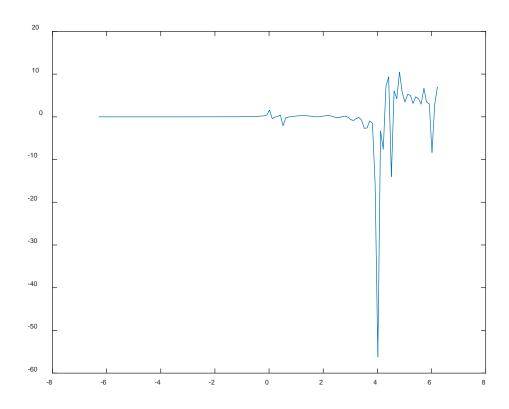
4) a)



b)



c)



5)

Size: 1 row, 8 columns. 1x8

Maximum value = 8.2

Minimum value = 2.1

Mean = 5.2525

Median = 5.4

Standard deviation = 2.0014

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301346798

```
>> t=[3.1 5.8 6.2 2.1 7.0 5.0 8.2 4.6]

t =

Columns 1 through 5

3.1000 5.8000 6.2000 2.1000 7.0000

Columns 6 through 8

5.0000 8.2000 4.6000

>> size(t)
```

ans =

1 8

>> min(t)

ans =

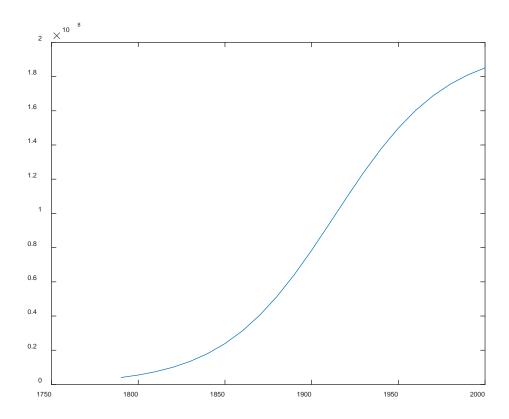
2.1000

301346798

```
>> max(t)
ans =
8.2000
>> mean(t)
ans =
 5.2500
>> median(t)
ans =
  5.4000
>> std(t)
ans =
  2.0000
>> sort(t)
ans =
 Columns 1 through 5
   2.1000 3.1000 4.6000 5.0000 5.8000
 Columns 6 through 8
  6.2000 7.0000 8.2000
```

6)

```
>> t = 1790:10:2000;
>> p = 197273000./(1+exp(-0.03134*(t-1913.25)));
>> plot(t,p)
```



The population stays constant after 2000 in this graph.