1)

a=1 — makes an a variable with value 1
b='x' — makes a b character variable with a value of 'x'
c=true — makes c a logical variable with value of true(1)
whos a b c — tells details about a, b, and c variables

Name	Size	Bytes	Class	Attributes
a	1x1	8	double	
b	1x1	2	char	
c	1x1	1	logical	

a==c — assigns the a variable the value of c (a true logical variable)
a + c — outputs 2 because a true logical variable has a value of 1
d = [1 2 3 4] — creates a 1x4 matrix with values 1 2 3 and 4
e=['a' 'b' 'c' 'd'] — creates a 1x4 array of char variables, 'abcd'
f=['abcd'] — same output as e
g={'a', 'b', 'c', 'd'} — error- can not put char variables in a cell
h={a b c d} — creates a 1x4 cell containing a, b, c, and d
whos d e f g h — tells details about variables d, e, f, and h variables

Name	Size	Bytes	Class	Attributes
d	1x4	32	double	
e	1x4	8	char	
f	1x4	8	char	
h	1x4	491	cell	

2)

```
>> intmin int16

ans =

  int16

   -32768

>> intmax int16

ans =

  int16

   32767

>> intmin int32

ans =

  int32

   -2147483648
```

```
>> intmax int32

ans =

  int32

   2147483647
```

3)
basically 2/1

```
ans =

     2
```

1/2

```
ans =

    0.5000
```

1/2 as int8 type

```
ans =

  int8

   1
```

1/3 as int8 type

```
ans =

  int8

   0
```

-1(5^2)

```
ans =

   -25
```

(-5)^2

```
ans =

    25
```

10-(6/2)

```
ans =

     7
```

5*(4/2)*3

```
ans =

    30
```

4a)

```
>> a=[1,0;2,1]

a =

     1     0
     2     1

>> b=[-1,2;0,1]

b =

    -1     2
     0     1

>> c=[3;2]

c =

     3
     2

>> d=[5]

d =

     5
```

4b)
adding values that are in same locations in matrices

```
>> a+b

ans =

     0     2
     2     2
```

dot product of a and b matrices

```
>> a .* b

ans =

    -1     0
     0     1
```

cross product of a and b matrices

```
>> a*b

ans =
```

```
    -1     2
    -2     5
```

cross product of a and c matrices

```
>> a*c

ans =

     3
     8
```

adding a and c matrices

```
>> a+c

ans =

     4     3
     4     3
```

adding a and d matrices

```
>> a+d

ans =

     6     5
     7     6
```

dot product of a and d matrices

```
>> a .* d

ans =

     5     0
    10     5
```

cross product of a and d matrices

```
>> a * d

ans =

     5     0
    10     5
```

5)

5a)

```
 >> x=[2,2,2]

x =

     2     2     2
```

```
>> diag(x)

ans =

     2     0     0
     0     2     0
     0     0     2
```

5b)

```
>> 2*(eye(3))

ans =

     2     0     0
     0     2     0
     0     0     2
```

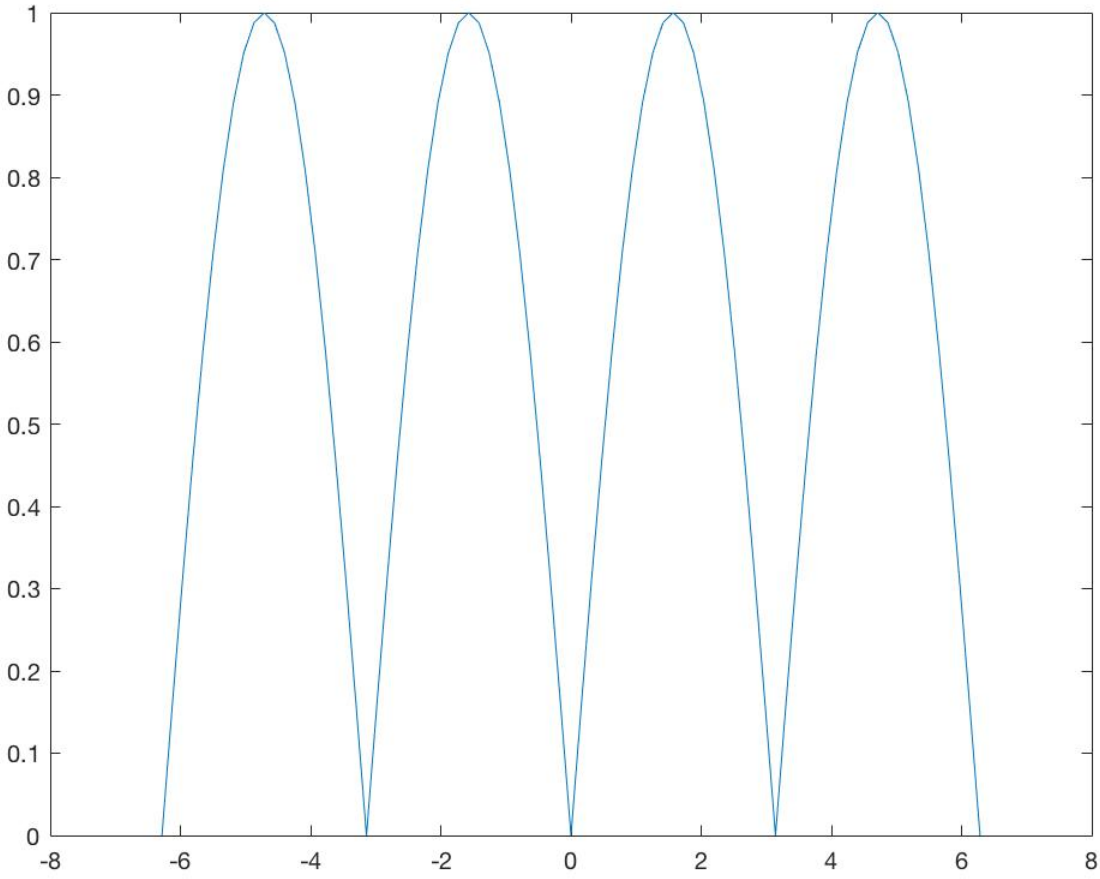
5c)

```
A =

     0     0     0
     0     0     0
     0     0     0

>> v=[1 5 9]

v =

     1     5     9

>> A(v)=2

A =

     2     0     0
     0     2     0
     0     0     2
```

6)

Code submitted separately.

7)



8)
File/Users/Brent/Desktop/mynewdir/myscript.m is not found in the current folder or on the MATLAB path.
To run this file, you can either change the MATLAB current folder or add its folder to the MATLAB path.