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Problem 2:

a) i) $t = 1 : 6 : 37$

result using $t = 1:6:37$

```
t = 1:6:37
```

```
t =
```

```
1      7      13      19      25      31      37
```

result using linspace

```
t = linspace(1,37,7)
```

```
% It creates 7 evenly spaced number from 1 to 37, including 1 and 37.
```

```
t =
```

```
1      7      13      19      25      31      37
```

a) ii) $x = -2:4$

```
%result using x = -2:4
```

```
x = -2:4
```

```
x =
```

```
-2      -1      0      1      2      3      4
```

result using linspace

```
x = linspace(-2,4,7)
```

```
% It creates 7 evenly spaced number from -2 to 4, including -2 and 4.
```

```
x =  
    -2    -1     0     1     2     3     4
```

b i) `v = linspace(-3,0,5)`

result using linspace

```
v = linspace(-3,0,5)
```

```
v =  
    -3.0000    -2.2500    -1.5000    -0.7500         0
```

result using colon notation.

```
v = -3:0.75:0  
% it creates number from -3 to 0 with an increment of 0.75
```

```
v =  
    -3.0000    -2.2500    -1.5000    -0.7500         0
```

b ii) `v = linspace(2,4,7)`

result using linspace

```
v = linspace(2,4,7)
```

```
v =  
    2.0000    2.3333    2.6667    3.0000    3.3333    3.6667    4.0000
```

result using colon notation.

```
v = 2:1/3:4  
% it creates number from 2 to 4 with an increment of 1/3(0.333..)
```

```
v =  
    2.0000    2.3333    2.6667    3.0000    3.3333    3.6667    4.0000
```

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