7. Write down a one-line Matlab® command using a colon to create following array:

[0.5, 0.75, 1.0, 1.25]

```
>> 0.5:0.25:1.25
```

8. Given t = 1:10, write down a one-line Matlab® command to compute values of the following function for all values of t using only one command:

$$\frac{e^t}{t^2}$$

```
>> exp(t)./t.^2
```

9. Suppose the following matrices have been defined in Matlab®:

$$A = \begin{bmatrix} 0 & 1 \\ 2 & 5 \end{bmatrix} \qquad B = \begin{bmatrix} 2 & 3 \\ 2 & 4 \end{bmatrix}$$

a) What is result of the following Matlab® command:

```
A(2,1) == B(1,1)
```

```
ans =
     1
```

b) What is result of the following Matlab® command:

```
A <= B
```

```
ans =
     1   1
     1   0
```

c) What is result of the following Matlab® command:

```
B(A > eye(2))
```

SOL'N: $B(A > \text{eye}(2)) = B\left(\begin{bmatrix} 0 & 1 \\ 1 & 1 \end{bmatrix}\right) = \begin{matrix} 2 \\ 3 \\ 4 \end{matrix}$

```
ans =
     2
     3
     4
```

10. What is result of the following Matlab® command:

```
display(['Hi', '','s'])
```

```
ans =
 His
```