


Ans to the question 5(c):

```
In[ ]:= NDSolve[{x''[t] + x[t] == 0, x[0] == 1, x'[0] == 0}, {x[t], x'[t]}, {t, 0, 10 π}]
```

```
Out[ ]:= { {x[t] → InterpolatingFunction[ Domain: {{0., 31.4}} Output: scalar] [t],
```

```
x'[t] → InterpolatingFunction[ Domain: {{0., 31.4}} Output: scalar] [t] }
```

```
In[ ]:= Plot[{x[t], x'[t]} /. %11, {t, 0, 10 π}]
```

