**Problem 7.1**

a)

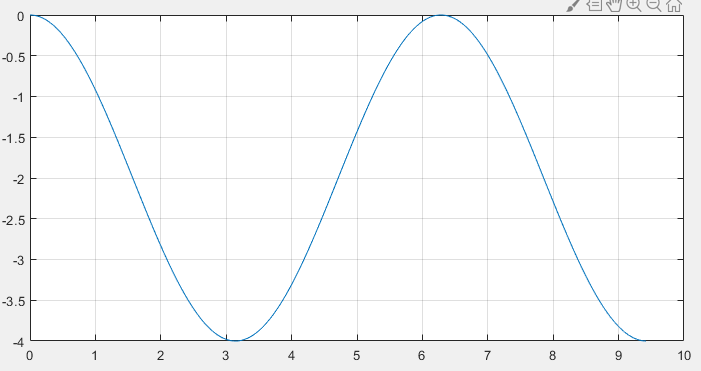
b) The angular frequency is tripled so we cannot convert the output, y[n], into the form

**Problem 7.2**

a) time invariant

b)

c)



Magnitude response

Phase response

d)

e)

**Problem 7.3**

b)

c)

d)

e)

f)

**Problem 7.4**

a)

b)

c)

d)

**Problem 7.5**

a)

b)

c)