

HW1 Solution

1. This is my solution to question 1

(a) This is my solution to question 1a

(b) The DTFT equation is $X(e^{j\omega}) = \sum_{k=-\infty}^{\infty} x[k]e^{-j\omega k}$

(c) The IDTFT equation is $\frac{1}{2\pi} \int_{-\pi}^{\pi} X(e^{j\omega})e^{j\omega n} d\omega$

Here's how to write verbatim:

```
> disp('This is some Matlab Code')  
> grade = 10;  
>
```

Now, here's a figure:

Figure 1: This is the caption