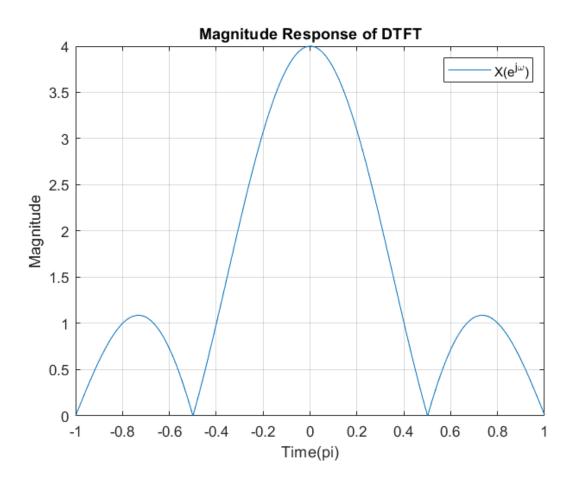
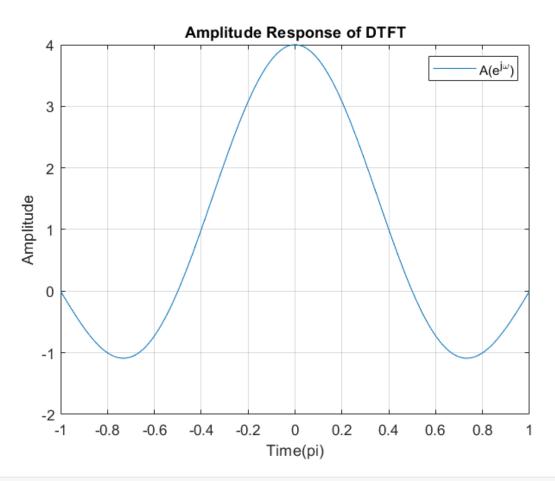
## HW5\_105060012\_Paper Assignment\_matlab

By: 105060012 張育菘

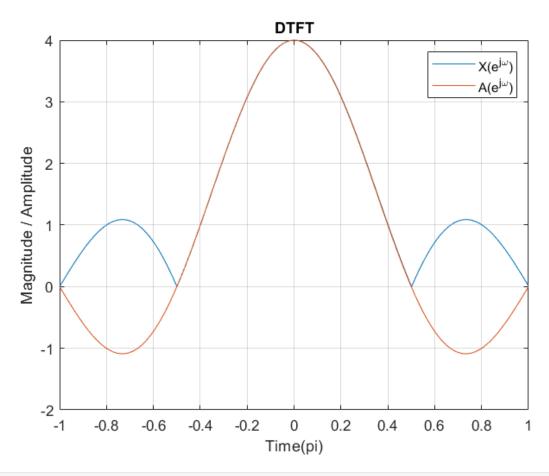
1.



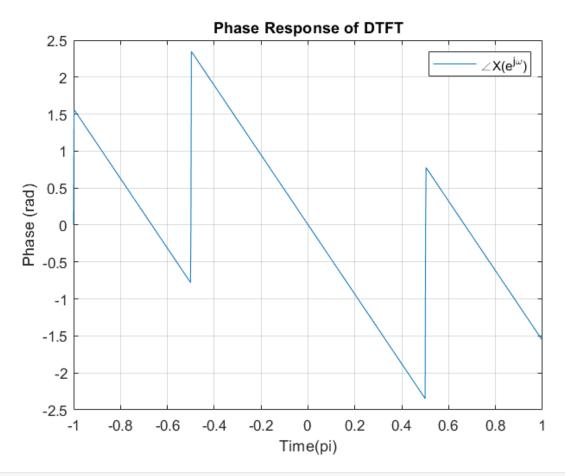
```
figure; plot(om/pi, Amp); grid on;
title('Amplitude Response of DTFT');
legend('A(e^j^\omega)')
ylabel('Amplitude');
xlabel('Time(pi)');
```



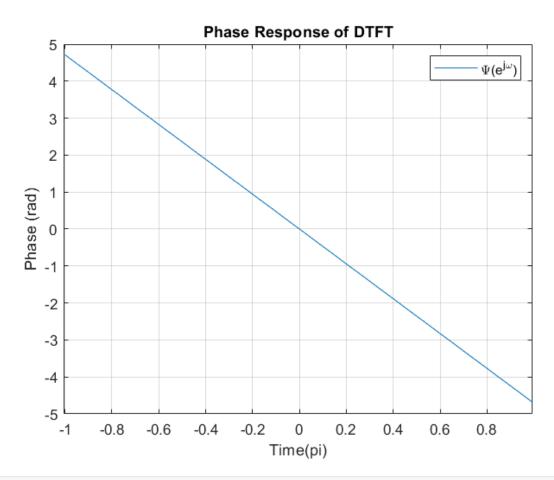
```
figure; plot(om/pi, abs(X_ft)); hold on;
plot(om/pi, Amp); hold off; grid on;
title('DTFT');
legend('X(e^j^\omega)', 'A(e^j^\omega)')
ylabel('Magnitude / Amplitude');
xlabel('Time(pi)');
```



```
figure; plot(om/pi, angle(X_ft)); grid on;
title('Phase Response of DTFT');
legend('\angleX(e^j^\omega)')
ylabel('Phase (rad)');
xlabel('Time(pi)');
```



```
figure; plot(om/pi, Amp_psi); grid on;
title('Phase Response of DTFT');
legend('\Psi(e^j^\omega)')
ylabel('Phase (rad)');
xlabel('Time(pi)');
```



```
figure; plot(om/pi, unwrap(angle(X_ft))); hold on;
plot(om/pi, Amp_psi); hold off; grid on;
title('DTFT');
legend('\angleX(e^j^\omega)', '\Psi(e^j^\omega)')
ylabel('Phase (rad)');
xlabel('Time(pi)');
```

