## Live Editor demo

StudentName: Abc Def

StudentNumber: s123

**StudentEmail:** a.b.c.def@student.saxion.nl

Note: Upload your mlx-file and the pdf-file in blackboard!

```
DC =20
```

DC = 20

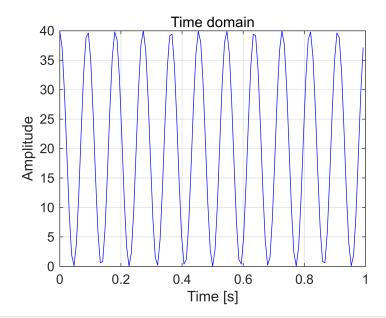
```
Ampl =20
```

Ampl = 20

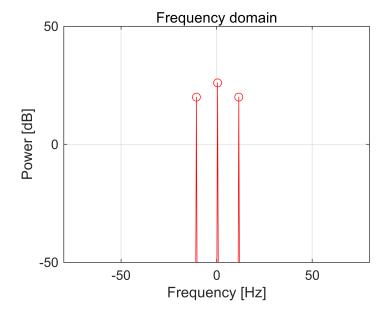
```
Freq =12.25
```

Freq = 11

```
% time domain
s = DC + Ampl * cos( 2 * pi * Freq * t );
plot( t, s, 'b-' );
grid on; zoom on;
xlabel('Time [s]');
ylabel ('Amplitude');
title('Time domain');
```



```
% spectral domain
Y = fftshift( fft( s ) ) / L;
Y = max( -200, Ampl2dB( Y ) );
fr_ax = linspace(-Fs/2,Fs/2,length(Y));
plot(fr_ax, Y, '-ro' );
ax = axis; ax(3) = -50; axis( ax );
grid on; zoom on;
xlabel('Frequency [Hz]');
ylabel('Power [dB]');
title('Frequency domain');
```



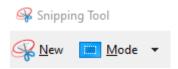
```
function dB = Ampl2dB( a )
% This function converts an Amplitude (e.g. Volts)
% into 'deciBells'. But, deciBells are defined on Power.
```

Also additional info as url's etc can be placed outside the code blocks:

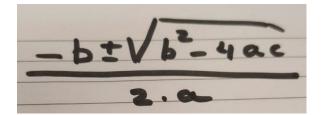
Wikipedia :: Quadratic\_formula

Insert images or other useful additional information into your LiveEditor-file.

You can snap&paste images with the 'SnippingTool' under Windows.



Example: (paste your paperwork into a LiveScript)



Example (if you like LaTeX):

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

```
function x = abc( a, b, c )
% Calculate the zero crossings of a quadratic function.
% And yes, I know ... I don't check on division by 0
    D = sqrt( b.*b - 4 .* a .* c )
    x1 = (-b - D ) / ( 2 * a );
    x2 = (-b + D ) / ( 2 * a );
    x = [ x1 x2 ];
end
```