Assignment – 4	**Due Date: 21/12/2018**
Marks: 10	**Handout Date: 14/12/2018**

Question # 1:

Compute the discrete-time Fourier transform of the following signals:

1. $x[n] = \left(\frac{1}{4}\right)^n u[n]$
2. $x[n] = \left(\frac{1}{3}\right)^n u[-n]$

Question # 2:

Find the Fourier series coefficients for each of the following signals:

1. $x(t) = \sin\left(10\pi t + \frac{\pi}{6}\right)$
2. $x(t) = 1 + \cos(2\pi t)$

Good Luck