EE380 Project 5 Fall 2017

Q1. X ranges from 0 to 50 and the interval on x-axis is 0.05, please plot pdf of **Gamma distribution** for

1. ( α=1, β=1), 2. (α=1, β=5), 3. (α=1, β=10), 4. (α=5, β=1), 5. (α=10, β=1), and 6. (α=10, β=2)

Q2. Use normal distribution to generate Chi-square distribution (graph the results of degree of freedom: 1 and 10).

Q3. Curve fitting; data x and y are given as x=[3 11 22 31 64 92 112 176 259 362], y=[2 3 4 5 6 7 8 12 15 21]. Use Metlab to find coefficients a and b of equation y=ax+b to correlate x and y. plot the original data x and y and x and fitted y .