1. Find the value of ‘K’ for the following Random variables,
   a. $F(x) = 4k - x$ $0 < x < 1$
   b. $F(x) = kx^2 (x - 1)$ $0 < x < 1$
   c. $F(x) = k/3 \quad (x^2 – x)$ $0 < x < 2$

2. Find the value of ‘K’ for the following Random variables,
   a. $F(x) = 2kx^3$ $0 < x < 2$
   b. $F(x) = \frac{4k}{8} x^4$ $2 < x < 5$
   c. $F(x) = \quad 3k^3 / 1+x^2$ $-\alpha < x < \alpha$