1. $R_4(x) = e^c \frac{x^5}{5!}$

2. $R_5(x) = \frac{720}{(1-c)^7} \frac{x^6}{6!}$

3. $R_5(x) = -\sin(c) \frac{x^6}{6!}$

4. $R_6(x) = -\cos(c) \frac{x^7}{7!}$

5. $R_6(x) = -\frac{-6}{c^2} \frac{(x-1)^4}{4!}$