§3.8, #8  Need 1st n st. \((0.99)^n < 0.95\).
\[ n = 6 \text{ does it.} \]

§9.1, #6, a. \#8 \(\frac{1}{2}\)

§4.2 \#2 \(-4\)

(R1) \(EX = \frac{9}{4}, \quad E(X^{-1/4}) = \frac{4}{99} \cdot 3^{1/4} = \frac{4}{n} \cdot 3^{3/4}\)

(R2) \(43/180\)

(R3) when \(X\) and \(Y\) are independent, \(E(XY) = \frac{9}{8}\)