Problems - Sections 63 - 66

- (3) Find the Taylor series for $\frac{1}{z^2}$ centered at z = 2.
- (6) First show that

$$\frac{1}{z} = \sum_{n=0}^{\infty} (-1)^n (z-1)^n$$

for |z - 1| < 1. Then use that series to derive the Taylor series for $\log z$ centered at z = 1.