

Find inverse z transform by hand for

1. $4 + z^{-2} + \frac{6}{2 + 2z^{-1}}, |z| > 1$

2.

2. $\frac{z^2}{(1+z)(1-z)}, |z| > 1$

hint: put into polynomial form in z^{-1}
 first, then factor into
 $\frac{c}{1 - \lambda z^{-1}}$ sections.