$$(z-3)^{2}(z-1)$$
 $(z-4)(z-3)(z+2)$ 
 $(z-3)(z-2)(z+1)$ 

3.  $z^3 - 4z^2 + z + 6$  has a factor (z - (-1)) compute all other factors:

## (z-4) (z-3) (z+4)

Solution

Apply Long Division.

(z-3) (z-2) (z+1)