$$(z-4) (z-2) (z+4)$$
 $(z-4) (z-2) (z+2)$

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

$(z-2)^2(z+2)$

Solution

 $(z-2)^2(z+1)$

Apply Long Division.

 $(z-2)^2(z+1)$