$$(r-1) (r+1)^{2}$$
 $(r-3) (r-1) (r+1)$ 
 $(r-1)^{2} (r+1)$ 

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

Solution

Apply Long Division.  $(r-1)^2 (r+1)$ 

(r-1)(r+3)(r+4)