5.  $f^3 + 5 f^2 + 8 f + 4$  has a factor (f - (-2)) compute all other factors: f (f + 1) (f + 3) (f - 4) f (f + 1)

## $(f-2)(f+1)^2$

 $(f+1) (f+2)^2$ 

Solution

Apply Long Division.  $(f+1)(f+2)^2$