3.  $k^3 - 2k^2 - k + 2$  has a factor (k - (-1)) compute all other factors:  $(k-4)^{2}(k-2)$  $(k-3)^2(k-2)$  $(k-2)\ (k-1)\ (k+1)$  $(k-2)^{2}(k+1)$ 

## Solution

Apply Long Division. (k-2) (k-1) (k+1)