4. $k^3 + 7 k^2 + 12 k$ has a factor (k - (-4)) compute all other factors: (k-1) k (k+3) $(k+1)(k+3)^2$

 $(k-1)(k+3)^2$

k (k + 3) (k + 4)

Solution

Apply Long Division. k(k+3)(k+4)