4. $k^3 - 9k$ has a factor (k-(-3)) compute all other factors: $(k-4)(k+2)^2$ (k-4)(k-1)(k+2)(k-3) k (k+3)

Solution

 $(k + 2)^{2} (k + 3)$

Apply Long Division.

(k-3) k (k+3)