2. $q^3 - g$ has a factor (g - (-1)) compute all other factors: (g-4) (g-1) (g+1) $(g-1)^2 (g+4)$ $(g-1) \ g \ (g+1)$ (g-2) (g-1) (g+3)Solution Apply Long Division.

 $(g-1) \ g \ (g+1)$