1.  $c^3 + 8c^2 + 19c + 12$  has a factor (c - (-4)) compute all other factors: (c-3)(c+1)(c+4)(c-4)(c-3)(c+4)(c+1)(c+3)(c+4)(c-2) c (c+4)Solution Apply Long Division. (c+1)(c+3)(c+4)