(r+2)(r+3)(r+4)(r-2) r (r+3)

2. $r^3 + 8 r^2 + 21 r + 18$ has a factor (r - (-3)) compute all other factors:

(r-3)(r+3)(r+4)

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

Solution

Apply Long Division. $(r+2)(r+3)^2$