$$(n-3) (n+2) (n+4)$$
 $(n-3) (n+2) (n+3)$

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

$(n-4)^2 (n+2)$

 $(n + 2)^2$

Solution

Apply Long Division.

 $(n + 2)^2$