(t+1)(t+2)(t+3)t (t + 1) (t + 3)

3.  $t^3 + 3t^2 - 9t - 27$  has a factor (t - (-3)) compute all other factors:

 $(t-4) (t+3)^2$ 

 $(t-3)(t+3)^2$ 

## Solution

Apply Long Division.

 $(t-3)(t+3)^2$