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

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

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

Solution

Apply Long Division.

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