حللي العبارة التالية إلى عواملها الأولية: 4.  $e(e+1)(e^2+e+1)$ 

$$e(e-1)(e^2+2e+1)$$
  
 $e(e+1)(e^2-e+1)$   
 $e(e-1)(e^2+e+1)$ 

 $e^{4} + e$ 

## الحل:

- نخرج e عامل مشترك لتصبح:  $e^4 + e = e(e^3 + 1)$
- باستخدام تحليل مجموع مكعبين:
- $m^{+}+m^{-}=(|\text{Local}|\hat{d}_{0})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times(|\text{Autallia})\times$
- $e(e^3+1) = e(e^3+1^3)$
- $= e(e+1)(e^2-(e)(1)+(1)^2)$  $= e(e+1)(e^2-e+1)$