

2. $e^3 + 2e^2 - 11e - 12$ has a factor $(e - (-4))$ compute all other factors:

$$(e - 2) (e - 1) (e + 4)$$

$$(e + 4)^3$$

$$(e - 3) (e + 1) (e + 4)$$

$$(e + 1) (e + 4)^2$$

Solution

Apply Long Division.

$$(e - 3) (e + 1) (e + 4)$$