

2. $m^3 + 6m^2 + 9m + 4$ has a factor $(m - (-4))$ compute all other factors:

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

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

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

$$(m - 1) (m + 1) (m + 3)$$

Solution

Apply Long Division.

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