

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

$$(m - 1) (m + 1) (m + 4)$$

$$(m - 4) (m - 1) (m + 1)$$

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

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

Solution

Apply Long Division.

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