

4. $n^3 + n^2 - n - 1$ has a factor $(n - (-1))$ compute all other factors:

$$(n - 3) n (n + 1)$$

$$n (n + 1) (n + 4)$$

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

$$(n - 2) (n + 1) (n + 2)$$

Solution

Apply Long Division.

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