

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

$$(p + 1)^2 (p + 2)$$

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

$$(p - 4) (p - 1) (p + 1)$$

$$p (p + 1) (p + 2)$$

Solution

Apply Long Division.

$$(p - 4) (p - 1) (p + 1)$$