

1. $p^3 + 5p^2 + 7p + 3$ has a factor $(p - (-3))$ compute all other factors:

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

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

$$(p + 1)^2(p + 3)$$

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

Solution

Apply Long Division.

$$(p + 1)^2(p + 3)$$