

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

$$p(p + 3)(p + 4)$$

$$(p - 3)(p - 1)(p + 3)$$

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

$$(p - 2)(p + 3)(p + 4)$$

**Solution**

Apply Long Division.

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