

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

$$(c + 2) (c + 3) (c + 4)$$

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

$$(c - 4) c (c + 1)$$

$$(c + 1) (c + 2) (c + 4)$$

Solution

Apply Long Division.

$$(c - 4) c (c + 1)$$