

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

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

$$(j - 1) (j + 1) (j + 2)$$

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

$$(j - 3) (j - 1) (j + 1)$$

Solution

Apply Long Division.

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