

3. $j^3 - 6j^2 + 32$ has a factor $(j - (-2))$ compute all other factors:

$$(j - 4) (j + 1) (j + 4)$$

$$(j - 4)^2 (j - 1)$$

$$(j - 4)^2 (j + 2)$$

$$(j - 4) (j - 1)^2$$

Solution

Apply Long Division.

$$(j - 4)^2 (j + 2)$$