

1. $w^3 - 2w^2 - 7w - 4$ has a factor $(w - (-1))$ compute all other factors:

$$(w - 4) (w - 3) (w + 1)$$

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

$$(w - 4) (w + 1)^2$$

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

Solution

Apply Long Division.

$$(w - 4) (w + 1)^2$$