

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

$$(y + 1) (y + 3) (y + 4)$$

$$y^2 (y + 1)$$

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

$$(y - 1) (y + 1) (y + 2)$$

Solution

Apply Long Division.

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