

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

$$(r-1)(r+1)(r+2)$$

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

$$(r-2)(r-1)^2$$

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

Solution

Apply Long Division.

$$(r-2)(r-1)^2$$