

2. $r^3 - 7r^2 + 14r - 8$ has a factor $(r-1)$ compute all other factors:

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

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

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

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

Solution

Apply Long Division.

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