

1.  $r^3 - 5r^2 + 4r$  has a factor  $(r-0)$  compute all other factors:

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

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

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

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

**Solution**

Apply Long Division.

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