

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

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

$$(r-4) (r-3)^2$$

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

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

**Solution**

Apply Long Division.

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