

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

$$r (r + 3)^2$$

$$r (r + 1) (r + 3)$$

$$(r - 3) (r - 1) r$$

$$(r - 2) r (r + 3)$$

Solution

Apply Long Division.

$$(r - 3) (r - 1) r$$