

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

$$(q - 4) (q - 2)^2$$

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

$$(q - 4) (q - 1) q$$

$$(q - 4) (q - 2) (q + 3)$$

Solution

Apply Long Division.

$$(q - 4) (q - 1) q$$