

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

$$(c - 4) (c + 3) (c + 4)$$

$$(c - 3) c (c + 3)$$

$$(c - 1) c (c + 3)$$

$$(c - 2)^2 (c + 3)$$

Solution

Apply Long Division.

$$(c - 1) c (c + 3)$$