

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

$$(c + 1) (c + 3) (c + 4)$$

$$(c + 1) (c + 3)^2$$

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

$$(c - 2) (c - 1) (c + 3)$$

Solution

Apply Long Division.

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