

2. $c^3 - 2c^2 - 8c$ has a factor $(c - (-2))$ compute all other factors:

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

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

$$(c - 4) c (c + 2)$$

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

Solution

Apply Long Division.

$$(c - 4) c (c + 2)$$