

1.  $c^3 + c^2 - 9c - 9$  has a factor  $(c - (-3))$  compute all other factors:

$$(c - 3)^3$$

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

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

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

**Solution**

Apply Long Division.

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