

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

$$(k - 4) (k - 1) (k + 1)$$

$$(k - 2) (k + 1) (k + 4)$$

$$k (k + 1) (k + 4)$$

$$(k - 4) (k + 1)^2$$

**Solution**

Apply Long Division.

$$k (k + 1) (k + 4)$$