

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

$$(f - 1) f (f + 1)$$

$$(f - 4) (f - 1)^2$$

$$(f - 1) (f + 1) (f + 4)$$

$$(f - 2) (f - 1) (f + 1)$$

**Solution**

Apply Long Division.

$$(f - 1) (f + 1) (f + 4)$$