

1. $f^3 + 2f^2 - 4f - 8$ has a factor $(f - (-2))$ compute all other factors:

$$(f - 2) (f + 2) (f + 3)$$

$$(f - 4) (f - 3) (f + 2)$$

$$(f - 2) (f + 2)^2$$

$$(f - 4) (f + 2) (f + 4)$$

Solution

Apply Long Division.

$$(f - 2) (f + 2)^2$$