

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

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

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

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

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

Solution

Apply Long Division.

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