

5. $f^3 + f^2 - 14f - 24$ has a factor $(f - (-3))$ compute all other factors:

$$(f + 1) (f + 2) (f + 4)$$

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

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

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

Solution

Apply Long Division.

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