

5. $h^3 + 3h^2 - 4h - 12$ has a factor $(h - (-3))$ compute all other factors:

$$(h - 1) h (h + 3)$$

$$(h + 1) (h + 2) (h + 3)$$

$$(h - 2) (h + 2) (h + 3)$$

$$(h - 1) (h + 3) (h + 4)$$

Solution

Apply Long Division.

$$(h - 2) (h + 2) (h + 3)$$