

5. $h^3 + 2h^2 - 5h - 6$ has a factor $(h - (-3))$ compute all other factors:

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

$$h (h + 1) (h + 4)$$

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

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

Solution

Apply Long Division.

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