

3. $h^3 + 9h^2 + 27h + 27$ has a factor $(h - (-3))$ compute all other factors:

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

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

$$(h + 3)^3$$

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

Solution

Apply Long Division.

$$(h + 3)^3$$