

1. $h^3 + 3h^2 - 6h - 8$ has a factor $(h - (-4))$ compute all other factors:

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

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

$$(h - 2) (h + 1) (h + 4)$$

$$(h - 2) h (h + 4)$$

Solution

Apply Long Division.

$$(h - 2) (h + 1) (h + 4)$$