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

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

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

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

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

Solution
Apply Long Division.
$(h - 4) (h - 1) (h + 2)$