1. $h^3 - h^2 - 14h + 24$ has a factor $(h-(-4))$ compute all other factors:

$h (h + 3) (h + 4)$

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

$(h - 3) (h - 2) (h + 4)$

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

Solution
Apply Long Division.
$(h - 3) (h - 2) (h + 4)$