$$(u-4)^2 (u+3)$$

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

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

(u-4) (u-3) (u+3)

2. $u^3 - 5u^2 + 2u + 8$ has a factor (u - (-1)) compute all other factors: