

1. $u^3 - 5u^2 - 2u + 24$ has a factor $(u - (-2))$ compute all other factors:

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

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

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

$$(u - 4) (u - 2) u$$

Solution

Apply Long Division.

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