

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

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

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

$$u^2 (u + 1)$$

$$(u - 2) (u - 1)^2$$

**Solution**

Apply Long Division.

$$u^2 (u + 1)$$