

2.  $u^3 + 4u^2 - 4u - 16$  has a factor  $(u - (-4))$  compute all other factors:

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

$$(u - 3) (u - 2) (u - 1)$$

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

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

**Solution**

Apply Long Division.

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