

2.  $a^3 + 6a^2 + 5a - 12$  has a factor  $(a - (-4))$  compute all other factors:

$$(a - 2)^2 (a + 3)$$

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

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

$$(a - 4) (a - 3) (a + 3)$$

**Solution**

Apply Long Division.

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