

5.  $a^3 - 7a^2 + 12a$  has a factor  $(a-0)$  compute all other factors:

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

$$(a - 1) a (a + 1)$$

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

$$(a + 1) (a + 2)^2$$

**Solution**

Apply Long Division.

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