

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

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

$$(t - 3) t (t + 3)$$

$$(t - 3) (t - 1) (t + 1)$$

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

**Solution**

Apply Long Division.

$$(t - 3) (t - 1) (t + 1)$$