

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

$$(t - 1) t^2$$

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

$$(t - 1) t (t + 2)$$

$$(t - 4) (t - 2) (t - 1)$$

**Solution**

Apply Long Division.

$$(t - 1) t (t + 2)$$