

1.  $t^3 - t^2 - 14t + 24$  has a factor  $(t - (-4))$  compute all other factors:

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

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

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

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

**Solution**

Apply Long Division.

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