

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

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

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

$$t (t + 2) (t + 3)$$

$$(t + 1) (t + 3) (t + 4)$$

Solution

Apply Long Division.

$$t (t + 2) (t + 3)$$