

1. $t^3 + 5t^2 + 8t + 4$ has a factor $(t - (-2))$ compute all other factors:

$$t^2 (t + 1)$$

$$(t + 1) (t + 4)^2$$

$$(t + 1) (t + 2)^2$$

$$t (t + 1)^2$$

Solution

Apply Long Division.

$$(t + 1) (t + 2)^2$$