

1. $m^3 + 6m^2 + 8m$ has a factor $(m - (-4))$ compute all other factors:

$$m^2 (m + 2)$$

$$(m - 3) (m + 1) (m + 2)$$

$$m (m + 2) (m + 4)$$

$$(m - 1) (m + 2)^2$$

Solution

Apply Long Division.

$$m (m + 2) (m + 4)$$