

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

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

$$m (m + 1) (m + 4)$$

$$(m - 2) (m + 1) (m + 4)$$

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

Solution

Apply Long Division.

$$(m - 2) (m + 1) (m + 4)$$