

1. $b^3 + b^2 - 8b - 12$ has a factor $(b - (-2))$ compute all other factors:

$$(b - 2) (b - 1) (b + 2)$$

$$b (b + 2)^2$$

$$(b - 3) (b + 2)^2$$

$$(b - 4) b (b + 2)$$

Solution

Apply Long Division.

$$(b - 3) (b + 2)^2$$