

4. $b^3 + 3b^2 - 9b - 27$ has a factor $(b - (-3))$ compute all other factors:

$$(b - 4) (b - 3) (b - 1)$$

$$(b - 3) (b + 1) (b + 4)$$

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

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

Solution

Apply Long Division.

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