

1. $b^3 - 9b$ has a factor $(b - (-3))$ compute all other factors:

$$b(b + 3)(b + 4)$$

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

$$(b - 3)b(b + 3)$$

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

Solution

Apply Long Division.

$$(b - 3)b(b + 3)$$