

4. $g^3 + 6g^2 + 9g$ has a factor $(g - (-3))$ compute all other factors:

$$g(g + 3)(g + 4)$$

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

$$g(g + 3)^2$$

$$(g - 4)(g - 2)(g + 3)$$

Solution

Apply Long Division.

$$g(g + 3)^2$$