

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

$$g (g + 1) (g + 3)$$

$$(g - 2) (g + 1) (g + 2)$$

$$g (g + 1) (g + 2)$$

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

Solution

Apply Long Division.

$$g (g + 1) (g + 2)$$