

2.  $g^3 - 13g - 12$  has a factor  $(g - (-3))$  compute all other factors:

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

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

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

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

**Solution**

Apply Long Division.

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