

3.  $g^3 - 8g^2 + 19g - 12$  has a factor  $(g-1)$  compute all other factors:

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

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

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

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

**Solution**

Apply Long Division.

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