

1.  $g^3 - 4g^2 + 5g - 2$  has a factor  $(g-1)$  compute all other factors:

$$(g - 3) (g - 1) (g + 2)$$

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

$$(g - 2) (g - 1)^2$$

$$(g - 3) (g - 1)^2$$

**Solution**

Apply Long Division.

$$(g - 2) (g - 1)^2$$