

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

$$(k-1) k (k+2)$$

$$(k-4) (k-1) k$$

$$(k-2) (k-1)^2$$

$$(k-3) (k-1) (k+3)$$

Solution

Apply Long Division.

$$(k-2) (k-1)^2$$