

1.  $k^3 - k^2$  has a factor  $(k-0)$  compute all other factors:

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

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

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

$$(k - 4) k (k + 2)$$

**Solution**

Apply Long Division.

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