

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

$$w^2 (w + 2)$$

$$(w - 3) w (w + 2)$$

$$(w - 1) w^2$$

$$(w + 1) (w + 2)^2$$

**Solution**

Apply Long Division.

$$(w - 1) w^2$$