

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

$$(b - 3) b (b + 2)$$

$$b (b + 1) (b + 2)$$

$$(b - 1) (b + 1) (b + 2)$$

$$(b + 2)^2 (b + 4)$$

**Solution**

Apply Long Division.

$$(b - 1) (b + 1) (b + 2)$$