

5.  $h^3 + 5h^2 + 2h - 8$  has a factor  $(h - (-4))$  compute all other factors:

$$h(h + 1)(h + 4)$$

$$h(h + 2)(h + 4)$$

$$(h - 1)(h + 2)(h + 4)$$

$$(h - 4)(h + 4)^2$$

**Solution**

Apply Long Division.

$$(h - 1)(h + 2)(h + 4)$$