

2.  $n^3 - 13n - 12$  has a factor  $(n - (-3))$  compute all other factors:

$$(n + 1)^2 (n + 3)$$

$$n (n + 3) (n + 4)$$

$$(n - 4) (n + 1) (n + 3)$$

$$(n - 2) (n + 3)^2$$

**Solution**

Apply Long Division.

$$(n - 4) (n + 1) (n + 3)$$