

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

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

$$(d - 3) d (d + 1)$$

$$(d - 1) d (d + 3)$$

$$(d - 3) (d - 2) (d + 1)$$

**Solution**

Apply Long Division.

$$(d - 1) d (d + 3)$$