

3. $d^3 + 2d^2 - 7d + 4$ has a factor $(d - (-4))$ compute all other factors:

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

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

$$(d - 1)^2 (d + 4)$$

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

Solution

Apply Long Division.

$$(d - 1)^2 (d + 4)$$