

4. $d^3 + d^2 - 10d + 8$ has a factor $(d - (-4))$ compute all other factors:

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

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

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

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

Solution

Apply Long Division.

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