

5. $s^3 + 8s^2 + 19s + 12$ has a factor $(s - (-4))$ compute all other factors:

$$(s - 1) s (s + 3)$$

$$(s + 3)^3$$

$$(s + 1) (s + 3) (s + 4)$$

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

Solution

Apply Long Division.

$$(s + 1) (s + 3) (s + 4)$$