

# Exercises for Ruffini's rule.

Factorize the following polynomials.

The answer is to the right, but those are not the factors, they are the solutions.

$x^3 - 8x^2 + 19x - 12$	1,3,4
$x^3 - 3x^2 + 4$	2,2,-1
$x^3 - 7x^2 + 14x - 8$	1,4,2
$x^3 - 7x - 6$	3,-2,-1
$x^3 + 9x^2 + 26x + 24$	-2,-3,-4
$x^4 - 6x^3 + 3x^2 + 26x - 24$	-2,1,3,4
$x^4 - 2x^3 - 13x^2 + 14x + 24$	-3,-1,2,4
$x^4 - 3x^3 - 7x^2 + 27x - 18$	1,2,3,-3
$x^4 + 3x^3 - 7x^2 - 15x - 18$	-3,1,-3,2
$x^4 - 13x^3 + 59x^2 - 107x + 60$	1,3,4,5
$x^4 - 23x^2 + 18x + 40$	-5,-1,2,4

... also, I haven't personally checked them, so there might be mistakes.