

В

mobius

Factor Polynomials (Order 3) - By **Grouping to Order 1 Factors, Coefficient**



	1	Use grouping to factor this order 3 polynomial
'	•	fully

$$y^3 + 2y^2 - 49y - 98$$

$$y^3 + 2y^2 - 49y - 98q^3 - 9q^2 - 16q + 144$$

A
$$(y-2)(y-7)(y+7)$$

$$(q-9)(q+4)(q-4)$$

$$(y+2)(y-7)(y+7)$$

$$(q+9)(q+4)(q-4)$$

$$x^3 - 6x^2 - 25x + 150$$

$$x^3 - 6x^2 - 25x + 150 x^3 - 6x^2 - 9x + 54$$

$$(x-6)(x+3)(x-3)$$

$$(x-6)(x+5)(x+5)$$

$$(x-6)(x+3)(x+3)$$

$$m^3 - 2m^2 - 36m + 72q^3 - 6q^2 - 16q + 96$$

$$q^3 - 6q^2 - 16q + 96$$

$$(m-2)(m+6)(m+6)$$

$$(q-6)(q-4)(q+4)$$

$$(m-2)(m-6)(m+6)$$

$$(q-6)(q+4)(q+4)$$

$$n^3 - 4n^2 - 9n + 36$$

$$n^3 - 4n^2 - 9n + 36p^3 + 4p^2 - 36p - 144$$

A
$$(n+4)(n+3)(n-3)$$

$$(p+4)(p-6)(p+6)$$

$$(n-4)(n+3)(n-3)$$

$$(p-4)(p-6)(p+6)$$

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