

Evaluate: Factoring Higher Order Polynomials

Polynomial	Method of Factoring	Reason	Factored Form
$3x^4 + 2x^2 - 8$			
$9x^2 - 16$			
$x^2 - 12x + 36$			
$x^3 - 64$			
$x^3 + 2x^2 + 7x + 14$			
$25x^2 - 30x - 7$			
$2x^4 + 10x^3 + 12x^2$			

1. $3x^4 + 2x^2 - 8$

2. $9x^2 - 16$

3. $x^2 - 12x + 36$

4. $x^3 + 2x^2 + 7x + 14$

5. $2x^4 + 10x^3 + 12x^2$

6. $12x^5 + 48x^4 + 10x^3 + 40x^2$