

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

### Factoring Polynomials HOMEWORK

Factor each expression completely. Make sure to check for GCF first and check if binomials can be factored further.

|                             |                               |
|-----------------------------|-------------------------------|
| 1) $135x^3 - 5$             | 2) $2x^4 + 5x^2 - 12$         |
| 3) $27x^3 + 27x^2 + 9x + 1$ | 4) $20x^3 + 28x^2 - 15x - 21$ |
| 5) $4n^4 - 400$             | 6) $16x^4 + 24x^2 + 9$        |
| 7) $343x^3 + 729$           | 8) $x^3 - 12x^2 + 48x - 64$   |
| 9) $5x^8 + 53x^4 + 30$      | 10) $81r^6 - 4$               |