

## Factoring Practice

Date \_\_\_\_\_ Period \_\_\_\_\_

**Factor the GREATEST COMMON FACTOR (GCF) out of each expression.**

1)  $3v^8 - 6v^4 + 5v^3$

2)  $64n^7 + 8n^6 - 56n^4$

3)  $v^5 + 4v^2 - 2v$

4)  $2x^5 + 12x^3 + 2x^2$

**Factor each DIFFERENCE OF SQUARES completely.**

5)  $r^2 - 16$

6)  $4x^2 - 9$

7)  $x^2 - 16y^2$

8)  $9n^2 - 4$

**Factor each completely by GROUPING.**

9)  $2p^3 - 5p^2 + 2p - 5$

10)  $10x^3 - 8x^2 + 15x - 12$

11)  $4v^3 + 5v^2 + 12v + 15$

12)  $24n^3 + 42n^2 - 168n - 294$

**Factor each TRINOMIAL completely.**

13)  $x^2 - x - 2$

14)  $a^2 - 4a - 5$

15)  $r^2 + 5r - 24$

16)  $n^2 + 10n + 9$