Name: Date: Period:

Factoring Completely

You may have problems that you will have to apply MORE than one type of factoring.

ALWAYS CHECK FOR GCF FIRST!!!

Reminder of the types of factoring learned:

    (1) GCF

    (2) DOTS

    (3) Trinomial

    (4) Tricky Trinomial

ELIMINATE what doesn't make sense first (ie. If there are only **2** terms, it CAN'T BE **TRI**nomial or Tricky **TRI**nomial. If there are **3** terms, it CAN'T be DO**T**S (Difference of **TWO** Squares).

Always ask yourself, HAVE I GONE FAR ENOUGH? Go through your list to make sure every problem is in its simplest form.

Factor Completely:

1. $4x^2 - 4$	5. $y^4 - 81$	9. $abx^2 - ab$
2. $5x^3 + 15x^2 - 20x$	6. $x - 25x^3$	10. $16x^2 - x^2y^4$
3. $2x^2y^2z^4 - 2$	7. $d^3 - 8d^2 + 16d$	11. $3x^2 - 27y^2$
4. $2a^4 - 32$	8. $25x^2 - 100y^2$	12. $4x^2 - 6x - 4$