

Name: _____

Date: _____

FACTOR (Look for GCF 1st)

1. $x^2 - 225$ DOTS $(x-15)(x+15)$	2. $3x^2 - 7x - 6$ Trin a>1 $(3x+2)(x-3)$
3. $x^3 + 5x^2 - 4x - 20$ Grouping $x^2(x+5) - 4(x+5)$ $(x+2)(x-2)(x+5)$	4. $x^2 - 196$ DOTS $(x+14)(x-14)$
5. $8x^2 - 200$ GCF + DOTs $8(x^2 - 25)$ $8(x+5)(x-5)$	6. $4x^2 + 49$ DOTS $(4x+7i)(4x-7i)$
7. $x^3 - 8x^2 - 9x + 72$ Grouping $x^2(x-8) - 9(x-8)$ $(x+3)(x-3)(x-8)$	*8. $16x^2 - 100$ GCF + DOTs $4(4x^2 - 25)$ $4(2x+5)(2x-5)$
9. $x^2 + 10x - 24$ Trin a=1 $(x+12)(x-2)$	10. $3x^2 - 4x - 15$ Trin a>1 $(3x+5)(x-3)$
11. $4x^2 - 121$ DOTS $(2x+11)(2x-11)$	12. $x^2 + 100$ DOTS $(x+10i)(x-10i)$
13. $x^3 - 2x^2 - 8x + 16$ Grouping $x^2(x-2) - 8(x-2)$ $(x^2-8)(x-2)$	14. $x^2 - 5x - 36$ Trin a=1 $(x-9)(x+4)$